CONSTRUCTION NEWS

Supplement to ENGINEERING NEWS. New York, December 6, 1906.

CONTENTS

CONSTRUCTION NEWS :
Plans and Specifications on File..... 193
List of Contracts Pending..... 193
Railways 194
Electric Railways 194
Light and Power Plants..... 194
Bridges 195
Buildings 195
Water Supply and Irrigation..... 196
Sewerage 196
Streets and Roads..... 197
Manufacturing Plants 198
Miscellaneous Contracts 198
Foreign Contracts and Export News..... 198
Contract Prices 199
Engineering Material Prices..... 199
CIVIL SERVICE EXAMINATIONS..... 200
PROPOSALS 200

CONSTRUCTION NEWS.

PLANS AND SPECIFICATIONS ON FILE.

The following Plans (P.), Specifications (S.) and Bidding Sheets (B. S.) may be seen at the office of The Engineering News Publishing Co., 220 Broadway, New York:

Bids close.	Work.	Place.	On file.	See issue
Dec. 11	Suction dredges	Panama	S. & B. S.	11- 8
*11	Canal	Troy, N Y.	P., S. & B. S.	11-22
*15	Ditches	Glendive, Mont.	P., S. & B. S.	11- 1
*15	Structures	Glendive, Mont.	S. & B. S.	11-15
*17	Bridge	Fall River, Mass.	S. & B. S.	11-22
*17	Bridge	Fall River, Mass.	P., S. & B. S.	12- 6
*20	Bridge	Charleston, W. Va.	P. & S.	12- 6
*20	Sluice gates	Cody, Wyo.	S. & B. S.	11-15
*22	Steel derrick	Philippine Islands.	S.	11-22
22	Cranes	Portsmouth, N. H.	S.	11-29

*Work advertised in Engineering News.

LIST OF CONTRACTS PENDING.

LIGHT, HEAT AND POWER PLANTS.

Bids close.	Work.	Place.	On file.	See issue
Dec. 17.	Power-house	Sault Ste. Marie, Mich.	Nov. 8	
	Advertised, Eng. News, Dec. 6 and 13.			
Dec. 26.	Power plant	Washington, D. C.	Nov. 29	
	Advertised, Eng. News, Nov. 29 to Dec. 20.			
Jan. 10.	Electric equipment	Pasadena, Cal.	Dec. 6	
Feb. 1.	Gas works	Richmond, Va.	Dec. 6	
	Advertised, Eng. News, Dec. 6.			

BRIDGES.

Dec. 6.	Bridge	Prestonsburg, Ky.	Nov. 29	
Dec. 10.	Bridges	Kansas City, Mo.	Nov. 29	
Dec. 11.	Trestle	Emporia, Va.	Dec. 6	
Dec. 13.	Bridge	New York, N. Y.	Dec. 6	
Dec. 13.	Bridge	New York, N. Y.	Dec. 6	
Dec. 14.	Bridge	Spokane, Wash.	Dec. 6	
Dec. 15.	Bridges	Sioux City, S. Dak.	Dec. 6	
Dec. 15.	Bridge	Carthage, Tenn.	Nov. 8	
	Advertised, Eng. News, Nov. 8 and 15.			
Dec. 15.	Bridge	Newport, Ind.	Nov. 15	
	Advertised, Eng. News, Nov. 15.			
Dec. 17.	Bridge	Fall River, Mass.	oNv. 15	
	Advertised, Eng. News, Nov. 15 to 29.			
Dec. 20.	Girders, etc.	Bridgeport, Conn.	Dec. 6	
	Advertised, Eng. News, Dec. 6.			
Dec. 20.	Bridge	Charleston, W. Va.	Nov. 29	
Dec. 27.	Bridge	Charleston, W. Va.	Nov. 29	
	Advertised, Eng. News, Nov. 29 and Dec. 6.			
Dec. 29.	Bridge	Greenfield, Ind.	Dec. 6	

BUILDINGS.

Dec. 10.	Club house	Galena, Mo.	Nov. 29	
Dec. 10.	Hospital	Carlisle, Pa.	Nov. 29	
Dec. 10.	Locomotive shops	Moncton, N. B.	Nov. 15	
Dec. 10.	Dwelling	Baltimore, Md.	Nov. 15	
	Advertised, Eng. News, Nov. 15.			
Dec. 10.	Shops	Moncton, N. B.	Nov. 22	
Dec. 10.	Mail-lift	Kansas City, Mo.	Nov. 22	
Dec. 10.	Heating plant	Galveston, Tex.	Dec. 6	
Dec. 11.	Elevators	St. Joseph, Mo.	Nov. 22	
Dec. 12.	Plumbing and heating	Washington, D. C.	Nov. 29	
Dec. 12.	Mail conveyor	Chicago, Ill.	Dec. 6	
Dec. 15.	Office building	Washington, D. C.	Nov. 22	
	Advertised, Eng. News, Nov. 22 to Dec. 13.			
Dec. 18.	Brewery	Fernie, B. C.	Nov. 15	
Dec. 20.	Plans and specifications	Shreveport, La.	Oct. 4	
Dec. 20.	Court-house	West Liberty, Ky.	Nov. 22	
Dec. 20.	Officers' quarters	Fort Robinson, Neb.	Dec. 6	
Dec. 20.	Post-office	Atlantic City, N. J.	Dec. 6	
Dec. 20.	Grandstand	Columbus, Ohio	Dec. 6	
Dec. 21.	Vacuum cleaning	New York, N. Y.	Dec. 6	
Dec. 21.	Cleaning system	New York, N. Y.	Dec. 6	
Dec. 29.	Shelter	Fort Assinniboine, Mont.	Dec. 6	
	Advertised, Eng. News, Dec. 6 to 27.			
Dec. 30.	Manufacturing plant	Two Rivers, Wis.	Nov. 29	
Jan. 2.	Post-office	Wausau, Wis.	Nov. 29	
	Advertised, Eng. News, Nov. 29 and Dec. 6.			
Jan. 4.	Coal pockets	Philadelphia, Pa.	Dec. 6	
	Advertised, Eng. News, Dec. 6 to 27.			
Jan. 4.	Light-house	Baltimore, Md.	Dec. 6	
	Advertised, Eng. News, Dec. 6.			
Jan. 7.	Post-office	Newport, R. I.	Dec. 6	
	Advertised, Eng. News, Dec. 6 and 13.			
Feb. 1.	Factory	Kokomo, Ind.	Dec. 6	
Feb. 8.	Library, University	N. Dak.	Nov. 15	

WATER SUPPLY AND IRRIGATION.

Dec. 6.	Water-works	Bismark, N. Dak.	Nov. 29	
Dec. 7.	Cisterns	Fort St. Philip, La.	Nov. 22	
Dec. 8.	Water-works	Eureka Springs, Ark.	Nov. 22	
Dec. 10.	Wells, pump, etc.	Ft. Bliss, Tex.	Nov. 22	
Dec. 11.	Canal	Troy, N. Y.	Nov. 22	
	Advertised, Eng. News, Nov. 22 and 29.			
Dec. 11.	Water-works	Plattsburg, Mo.	Nov. 29	
Dec. 12.	Reservoir, etc., Spring City	Pa.	Nov. 29	
	Advertised, Eng. News, Nov. 29 and Dec. 6.			
Dec. 12.	Repairs and supplies	Philadelphia, Pa.	Dec. 6	
Dec. 14.	High level sewer	Boston, Mass.	Nov. 29	
	Advertised, Eng. News, Nov. 29.			
Dec. 15.	Pumps	Ft. Worth, Tex.	Nov. 29	
	Advertised, Eng. News, Nov. 29 and Dec. 6.			
Dec. 15.	Air compressor	Ft. Worth, Tex.	Nov. 29	
	Advertised, Eng. News, Nov. 29 and Dec. 6.			
Dec. 15.	Excavation, Glendive,	Mont.	Nov. 1	
	Advertised, Eng. News, Nov. 1 to 29.			
Dec. 15.	Structures, Glendive,	Mont.	Nov. 8	
	Advertised, Eng. News, Nov. 8 to Dec. 6.			
Dec. 17.	Pumps	Chicago Heights, Ill.	Dec. 6	
Dec. 20.	Sluice gates, Cody,	Wyo.	Nov. 15	
	Advertised, Eng. News, Nov. 1 to 29.			
Dec. 22.	Water-works	Fort Williams, Ont.	Nov. 29	
	Advertised, Eng. News, Nov. 29 and Dec. 6.			
Dec. 22.	Pumping engines	Chicago, Ill.	Nov. 29	
	Advertised, Eng. News, Nov. 29 to Dec. 20.			
Dec. 28.	Water-works	Klamath Agency, Ore.	Dec. 6	
Dec. 31.	Tank	Fortress Monroe, Va.	Dec. 6	
	Advertised, Eng. News, Dec. 6 to 27.			
Dec. 31.	Pipe	Winnipeg, Man.	Dec. 6	
Jan. 4.	Pumping engines	Philadelphia, Pa.	Dec. 6	
	Advertised, Eng. News, Dec. 6 to 27.			
Jan. 9 ('07).	Dam, etc.,	Mitchell, Neb.	Nov. 22	
	Advertised, Eng. News, Nov. 22 to Jan. 3.			
Jan. 10.	Water supply	Elkhart, Ind.	Nov. 29	
Jan. 23 ('07).	Pipe,	New Orleans, La.	Nov. 15	
	Advertised, Eng. News, Nov. 15 to Jan. 17.			

SEWERAGE.

Dec. 6.	Sewers	Birmingham, Ala.	Nov. 29	
Dec. 6.	Sewers	Greenville, S. C.	Nov. 15	
	Advertised, Eng. News, Nov. 15.			
Dec. 7.	Sewers	Lebanon, Ohio.	Nov. 29	
Dec. 8.	Sewers, St. Clair,	Ohio.	Nov. 29	
Dec. 8.	Sewers	Fairbury, Neb.	Dec. 6	
Dec. 11.	Sewers	Bellevue, Pa.	Dec. 6	
Dec. 12.	Disposal plant, Spring City,	Pa.	Nov. 29	
	Advertised, Eng. News, Nov. 29 and Dec. 6.			
Dec. 12.	Sewers	Montpelier, Ind.	Dec. 6	
Dec. 13.	Sewers	Buffalo, N. Y.	Dec. 6	
Dec. 14.	Sewer,	Boston, Mass.	Nov. 29	
	Advertised, Eng. News, Nov. 29.			
Dec. 15.	Sewers, West Seneca,	N. Y.	Nov. 15	
	Advertised, Eng. News, Nov. 15 to Dec. 13.			
Dec. 17.	Sewers, San Francisco,	Cal.	Nov. 29	
Dec. 18.	Sewers, Fairbury,	Neb.	Nov. 29	
Dec. 18.	Disposal plant, Gainesville,	Fla.	Nov. 29	
Dec. 18.	Sewers, Louisville,	Ky.	Dec. 6	
Dec. 18.	Sewers, New York, N.	Y.	Dec. 6	
Dec. 19.	Sewers, Cincinnati,	Ohio.	Dec. 6	
Jan. 7.	Sewers, Rolla,	Mo.	Dec. 6	

STREETS AND ROADS.

Dec. 7.	Paving, Tulsa, Ind.	T.	Nov. 22	
	Advertised, Eng. News, Nov. 22 to Dec. 6.			
Dec. 8.	Paving, Omaha,	Neb.	Nov. 22	
Dec. 8.	Paving, Delaware,	Ohio	Nov. 22	
Dec. 10.	Paving, Atlantic City,	N. J.	Nov. 29	
	Advertised, Eng. News, Nov. 29.			
Dec. 10.	Improvements, Corvallis,	Ore.	Dec. 6	
Dec. 11.	Roads, Petersburg,	Ind.	Dec. 6	
Dec. 11.	Paving, Addyston,	Ohio	Nov. 29	
Dec. 12.	Paving, Cincinnati,	Ohio	Dec. 6	
Dec. 12.	Sidewalks, Philadelphia,	Pa.	Dec. 6	
Dec. 12.	Paving, Newark,	N. J.	Nov. 22	
	Advertised, Eng. News, Nov. 22 to Dec. 6.			
Dec. 12.	Paving, Troy,	Ohio	Nov. 8	
Dec. 15.	State roads, Albany,	N. Y.	Dec. 6	
Dec. 18.	Sidewalks, Louisville,	Ky.	Dec. 6	
Dec. 18.	Paving, New York,	N. Y.	Dec. 6	
Dec. 19.	Paving, Cincinnati,	Ohio.	Dec. 6	
Dec. 19.	Grading, New York,	N. Y.	Dec. 6	
Dec. 19.	Paving, Thomasville,	Ga.	Dec. 6	
	Advertised, Eng. News, Dec. 6 and 13.			
Dec. 19.	Asphalt plant, New York,	N. Y.	Dec. 6	
Dec. 24.	Paving, Cincinnati,	Ohio.	Dec. 6	
Dec. 24.	Grading, Madisonville,	Ohio	Nov. 15	
Dec. 26.	Paving, Cincinnati,	Ohio.	Dec. 6	
Dec. 29.	Resurfacing, Sharpsburg,	Md.	Dec. 6	
Jan. 7.	Paving, Newburgh,	N. Y.	Dec. 6	
	Advertised, Eng. News, Dec. 6 and 13.			
Jan. 7.	Macadam, Amityville,	N. Y.	Dec. 6	
	Advertised, Eng. News, Dec. 6 and 13.			

MISCELLANEOUS CONTRACTS.

Dec. 8.	Laying submarine cable	Spain (Foreign).	Dec. 6	
Dec. 10.	Caisson, foundation	Philadelphia, Pa.	Nov. 15	
	Advertised, Eng. News, Nov. 15 and 22.			
Dec. 11.	Railway	Belgium (Foreign)	Nov. 15	
Dec. 11.	Suction dredges	Panama	Nov. 8	
Dec. 11.	Levee	New Orleans, La.	Nov. 22	
Dec. 11.	Naval supplies	Washington, D. C.	Nov. 22	
Dec. 11.	Fire hose	New York, N. Y.	Dec. 6	
Dec. 12.	Ship canal	Panama	Oct. 18	
Dec. 12.	Reconstructing cribs	Cincinnati, Ohio.	Nov. 15	
	Advertised, Eng. News, Nov. 15 to Dec. 6.			
Dec. 13.	Dredging	Mt. Pulaski, Ill.	Nov. 22	
	Advertised, Eng. News, Nov. 22 to Dec. 6.			
Dec. 17.	Piers	Ottawa, Ont.	Dec. 6	
Dec. 18.	Naval, Supplies	Washington, D. C.	Nov. 22	
Dec. 19.	Canal work	Albany, N. Y.	Nov. 22	
Dec. 19.	Steel stand-pipe	Guantanamo, Cuba.	Nov. 15	
Dec. 19.	Telephone materials	Australia (Foreign).	Nov. 15	
Dec. 20.	Sluice gates	Wyoming.	Nov. 1	
	Advertised, Eng. News, Nov. 1 to 29.			
Dec. 20.	Barges	Vicksburg, Miss.	Nov. 22	
	Advertised, Eng. News, Nov. 22 to Dec. 13.			
Dec. 21.	Rock removal	New York, N. Y.	Nov. 22	
	Advertised, Eng. News, Nov. 22 to Dec. 13.			
Dec. 22.	Steel derrick	Philippine Islands.	Nov. 22	
	Advertised, Eng. News, Nov. 22 and 29.			
Dec. 22.	Cranes, Portsmouth,	N. H.	Nov. 29	
Dec. 22.	Change of line	Huntingdon & Broad Top Mt. Ry.	Dec. 6	
	Advertised, Eng. News, Dec. 6.			
Dec. 22.	Drainage, De Land,	Ill.	Dec. 6	
	Advertised, Eng. News, Dec. 6.			
Dec. 27.	Destructor plans, New York,	N. Y.	Nov. 29	
Dec. 28.	Dredging, New York,	N. Y.	Nov. 29	
	Advertised, Eng. News, Dec. 6 to 27.			
Dec. 28.	Clam-shell dredge, Wilmington,	Del.	Dec. 6	
	Advertised, Eng. News, Dec. 6 to 20.			
Jan. 8.	Dredging, New York,	N. Y.	Dec. 6	
	Advertised, Eng. News, Dec. 6 to 27.			
Jan. 9.	Monument, Mt. Vernon,	Ind.	Nov. 22	
Jan. 17.	Wharf, Key West,	Fla.	Dec. 6	
	Advertised, Eng. News, Dec. 6 to Jan. 3.			
Feb. 11.	Railway, Spain (Foreign)		Dec. 6	
Mar. 18 ('07).	Tunnel, New Zealand (Foreign).		Sept. 13	
	Advertised, Eng. News, Sept. 13 to Mar. 14.			
Apr. 12 ('07).	Ditches, Brookings, S. Dak.		Oct. 18	

CIVIL SERVICE EXAMINATIONS.

Dec. 10.	Manual training equipment	N. Y., N. Y.	Nov. 29	
Dec. 12.	Hydrographic Surveyor	Cuba	Nov. 22	
Dec. 12.	Topograph. Draftsman	New York, N. Y.	Nov. 8	
	Advertised, Eng. News, Nov. 8 and 15.			
Dec. 12.	Chief Steam Engr.,	Louisville, Ky.	Dec. 6	
Dec. 15.	Tracer	Albany, N. Y.	Nov. 22	
	Advertised, Eng. News, Nov. 22.			
Dec. 15.	C. E. Draftsman	Albany, N. Y.	Nov. 22	
	Advertised, Eng. News, Nov. 22.			
Dec. 15.	Bridge Designer	Albany, N. Y.	Nov. 22	
	Advertised, Eng. News, Nov. 22.			
Dec. 15.	Asst. Civil Engr.,	Albany, N. Y.	Nov. 22	
	Advertised, Eng. News, Nov. 22.			
Dec. 15.	Arch. Draftsman	Albany, N. Y.	Nov. 22	
	Advertised, Eng. News, Nov. 22.			
Dec. 27.	Surveyor,	Philippines	Dec. 6	
Jan. 3.	Aids, etc.,	Washington, D. C.	Dec. 13	
Jan. 3.	Civil Engr.,	Philippines	Dec. 13	
Jan. 9.	Topographic & Cartographic Draftsmen,	Washington, D. C.	Dec. 13	

RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ASTORIA & COLUMBIA RIVER.—W. A. GOODWIN, of Astoria, Ore., has contract for grading a short extension. Work projected was noted on Nov. 15.

BEAVERTON & WILLSBURG. — William Crooks, Pres., Portland, Ore., states that this company, recently incorporated, proposes to build a railroad 11½ miles long from Beaverton to Willsburg, Ore., to form a connection between the West Side & Yamhill division of the Southern Pacific and the main line. The route has been surveyed, but it has not been determined when construction will begin. G. W. Boschke is Ch. Engr., Portland, Ore. Noted on Nov. 22.

COFFEYVILLE & MEMPHIS.—E. C. Kiddoo, Secy., at Coffeyville, Kan., informs us that surveys will be started at once for company's line which is to be built for Coffeyville to Memphis, Tenn. Noted fully on Nov. 15.

CHICAGO, BURLINGTON & QUINCY.—It is probable that this company, within the next year, will expend about $1,000,000 for the improvement of its terminals at St. Joseph, Mo. W. L. Breckenridge is Ch. Engr. at Chicago, Ill.

CHICAGO, MILWAUKEE & ST. PAUL.—DITTMER, BRADBURY & WELTBREC, Railroad Bldg., Denver, Colo., have contract for an extension from Lombard, Mont., eastward for 36 miles. The contract calls for lessening grades and straightening curves. It will require the expenditure of about $1,500,000.

DALLAS, CLEBURNE & SOUTHWESTERN (M., K. & T.)—A press report from Cleburne, Tex., states that P. B. McDonald, Pres. of the Dallas, Cleburne & Southwestern R. R., which owns a line of railway between Cleburne and Egan, will soon begin building from Egan to Dallas, thus completing that end of the road. The company expects later to build the southwestern end of the line from Cleburne by way of Glen Rose and Hamilton to San Antonio.

EL PASO & KANSAS CITY SHORT LINE.—The city of El Paso, Tex., has granted to James L. Bell, of El Paso, a franchise for the proposed El Paso & Kansas City Short Line. A deposit of $10,000 as a guarantee must be made within 90 days, construction must begin within six months, 50 miles of the road must be completed and in operation by the end of the first year and 100 miles within the second year.

GULF, COLORADO & SANTA FE.—On Nov. 22 there appeared the following item under this title: "It is probable that this company will build a new line of road from Houston to Winnie, Tex., connecting with the Gulf & Interstate division at the latter point. The new line will be about 60 miles long." C. F. W. Feit, Ch. Engr., Galveston, Tex., writes us, referring to this, that "the newspaper report to the effect that this company proposed building from Winnie to Houston, Tex., was unauthorized. No progress has been made nor work authorized."

HUNTINGDON & BROAD TOP MOUNTAIN.—Bids are asked until Dec. 22 for a change of line three miles long on the line of this road from Hummel, Pa. Address J. Murray Africa, Engr., Huntingdon, Pa., for particulars. (Advertised, Engineering News.).

ILLINOIS CENTRAL. — The company's tracks through Grand Crossing (Chicago postoffice), Ill., are to be elevated at a cost of $2,000,000 and 1,000 men are to be employed at once on the work, with a view of completing it in one year. The total amount of track to be elevated is 11,000 feet, or about two miles, and there will be room for twelve tracks, ten being the number now in use. A. S. Baldwin is Ch. Engr., Chicago. John I. O'Neill, City Track Elevation Expert, Chicago.

LAKE SUPERIOR SOUTHERN.—D. E. BAXTER & CO., 27 William St., New York, have contract for construction and equipment of this line and work is to commence within 30 days. M. C. Phillips is Pres. and E. B. Priest, Ch. Engr., at Oshkosh, Wis. Surveys are nearly completed. The railway will extend from Huron Bay, Mich., to Madison, Wis., 290 miles. All but 34 miles will be new work; there is an old grade from Huron Bay to Champion, Mich.

MOBILE, JACKSON & KANSAS CITY.—Arrangements are reported to have been completed by the Mobile, Jackson & Kansas City R. R. Co. for the loan of $1,500,000, to be used in improving the line and the big terminals in Mobile, Ala., and the purchase of more engines and rolling stock. An average of $4,000 per mile will be expended. T. F. Whittelsey is Gen. Mgr., at Mobile.

NOVA SCOTIA STEEL & COAL CO.'S RY.— Engineers are engaged in surveying a line for coal shipping purposes from the new colliery to be opened at Point Aconi, N. S., next spring, to a connection with its line from Sydney mines to North Sydney. T. Cantley is Gen. Mgr., at New Glasgow, N. S.

PHILADELPHIA & READING.—Additional storage and classification tracks may be built at Rutherford, N. J.

ROSWELL & EASTERN.—George T. Veal, Vice-Pres., Roswell, N. Mex., advises us that this company will build from Roswell to the Texas state line, 86 miles. Right-of-way is secured and survey made. W. T. Wells is Pres. and H. Nunan is Ch. Engr., at Roswell. Capital stock, $100,000.

STATESVILLE AIR LINE.—We are officially advised that surveys are to be made for this railway, which will extend from Lincolnton to Statesville and from Statesville to Mt. Airy, N. C., 100 miles long. J. J. Mott is Pres., Statesville, N. C. Noted on Nov. 1.

ST. LOUIS & NORTH ARKANSAS (Missouri & North Arkansas R. R.)—An extension from Seligman to Neosho, Mo., is practically assured, as the citizens of Neosho have guaranteed a right-of-way for five miles southeast from Neosho and terminal grounds in that city and have given a bond of $30,000. S. W. Lee is Ch. Engr., at Eureka Springs, Ark.

WABASH.—The Pittsburg "Post," on Nov. 27, announced that "another important cut-off is to be built in the Pittsburg district by the Wabash. It will be used to give better service for through trains when the proposed connecting link is completed between Pittsburg and the western terminus of the Western Maryland. Plans for the new cut-off, which will extend from a point on the Westside Belt Railroad to Bridgeville, on the Wabash-Pittsburg Terminal Railroad, are being prepared by the local engineering department, and work is to be started early next spring. J. Q. Barlow, Ch. Engr. of the Western Maryland, announces that final surveys have determined the route to be followed by that company between Cumberland, Md., and this city, to link up the Wabash eastern connections. Starting at Cumberland, the Western Maryland will pass through "The Narrows" over the tracks of the Georges Creek line, which has been absorbed by the Wabash interests. Near Mount Savage the line will diverge southward, passing through Morgantown. It will then go in a northwesterly direction toward Salisbury Junction, where it will come in sight of the Baltimore & Ohio, occupying the south bank of the Youghlogheny River. The Baltimore & Ohio occupies the north bank.

"The two roads will practically parallel each other to a point near Indian Creek, where the Wheeling line will start. It will pass through Uniontown and Waynesburg, thence to Wheeling, where it will connect with the Wheeling & Lake Erie. The Pittsburg line will continue to parallel the Baltimore & Ohio to Confluence, where a direct cut across the country to this city will begin. It will strike the Monongahela River at Monessen. At a point about six miles south of Pittsburg the new line will connect with the Westside Belt, which is already a part of the Wabash system and by which entrance to this city will be effected. From the point of junction of the new road and the Westside Belt it is proposed to build a cut-off to Bridgeville, where connection will be made with the main line. By this cut-off trains can be diverted around Pittsburg, thus preventing the possibility of a freight tie-up.

"When the new line is completed the distance via the Baltimore & Ohio and the Western Maryland from Baltimore to Pittsburg will be as follows: Western Maryland Railroad, 303 miles; Baltimore & Ohio, 'Washington route,' 342 miles; Baltimore & Ohio, via old main line, 328 miles. There will be the same proportionate reduction in the distance via the Western Maryland from Baltimore to Wheeling. It is understood that the surveys for the proposed cut-off will be completed and submitted to the higher officials within the next month." See Wabash item in last week's issue.

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

TROY, N. Y.—Allan W. Paige and others, of Bridgeport, Conn., have purchased the franchise and right-of-way of the Troy, Rensselaer & Pittsfield Electric Railway Co. A double-track electric line is to be constructed, to be about 50 miles long. The franchise and right-of-way were bought, it is understood, for the Connecticut Railway & Lighting interests. The same men who bought the Troy road have also been in control of the Albany & Hudson Railway Co. since its reorganization some three years ago. This company controls the Kinderhook & Hudson Railway, the Hudson St. Ry. Co., the Hudson Light & Power Co., the Kinderhook Light & Power Co., the Albany Gas Light Co., and the Rensselaer Lighting Co., as well as water power at Stuyvesant Falls, N. Y. After the transfer of the charter and right-of-way had been made Allan W. Paige was elected Pres. of the company; W. H. Sterling, of Brooklyn, Vice-Pres.; Alexander McKeogh, of New York, Secy., and H. L. Merritt, of Montclair, N. J., Treas.

JOHNSTOWN, PA.—The joint highways committee of the City Councils has decided to award a franchise to the Johnstown Terminal Railroad Co. on the payment of $2,000 before May 1, 1908, and an annual payment of $1,000 each year following for 99 years. Similar conditions were imposed on the Johnstown & Northern Railway Co., which also desires a franchise to enter the city. The Arbutus Park Railway Co. and the Johnstown & Woodville Heights Railway Co. were recommended for franchises without restrictions or remuneration.

CONCORD, N. C.—Quint E. Smith, City Engr., advises us that the city has granted a franchise for street railway and gas plants to R. A. Brown and others.

MACON, GA.—The Macon & Albany Securities Co., which proposes to build the electric railways to connect Atlanta, Macon, Griffin, Americus and Albany, Ga., has organized by electing Nicholas J. Cruger, of Albany, Ga., Pres. The line from Atlanta to Macon will be 86 miles long, and from Macon to Albany 90 miles long. Survey between Atlanta and Macon has been completed and survey is to begin immediately from Macon to Albany. Part of the line is to be in operation within a year. The other officers are: Joseph H. Davis, Albany, Ga., Vice-Pres.; W. J. Massee, Secy. and Treas.; Stuart C. Davis, Macon, Assistant Secy. and Treas. The Executive Committee consists of William J. Kincaid, of Griffin, Chn.; John T. Moore, W. J. Massee of Macon; Joseph H. Davis and N. J. Cruger, of Albany.

ROME, GA.—The syndicate which has purchased the City Electric Railway Co., of Rome, will immediately spend $100,000 for improvements, including the laying of new steel rails, it is said. S. S. Brush, of Louisville, Ky., is actively interested. The City Electric Ry. Co. operates nine miles of line and electric lighting plant.

DONALDSONVILLE, LA.—At a recent meeting of the City Council, with Mayor Charles Maurin presiding, a resolution was adopted granting to F. S. Schneideau a franchise to construct, own and operate an electric railway in the Town of Donaldsonville. The conditions of the award are that the work shall begin within the next 24 months, and a forfeit of $3,000 will be posted to carry out the contract.

LIMA, OHIO.—George H. Ross, Ch. Engr. of the Lima, Kenton & Marion Traction Co., Kenton, Ohio, advises us that company is extending the Delaware & Magnetic Springs Electric Ry. to La Rue, via Richwood. Work is in progress. Company has reorganized under the name of the Columbus, Magnetic Springs & Northern Ry. See item under Delaware, Ohio, in issue of Nov. 22.

NOBLESVILLE, IND.—The City Council has granted W. B. Campbell, of Anderson, an extension of time to Nov. 1, 1908, in which to commence the work of constructing the interurban line that he and others have projected to connect Anderson, Noblesville, Lebanon and Crawfordsville.

GRAND RAPIDS, MICH.—Negotiations for the construction and equipment of four new suburban lines to run through southern Michigan and to be known as the Grand Rapids & Ionia, the Grand Rapids, Belding & Greenville; the Ionia & Owosso, and the Owosso & Pontiac railways, were completed in New York recently by E. M. Hopkins, Majestic Bldg., Detroit, Mich., Pres. of the new line. The W. A. CULLEN CONSTRUCTION CO., 25 Broad St., New York, is to construct the new lines. According to the terms of the contract made with the construction company the four lines must be fully equipped for service within 18 months from March 1, 1907. A surety bond of $100,000 has been filed to assure the completion of the contract. Official figures give the estimated length of the lines as follows: Grand Rapids & Ionia Ry. (will connect Grand Rapids, Cascade, Lowell, Saranac and Ionia), 33 miles; the Grand Rapids, Belding & Greenville, 20 miles; the Ionia & Owosso Ry. (will connect Ionia, Lyons, Muir, Pewamo, Fowler, St. John and Owosso), 48 miles; the Owosso & Pontiac Ry., 50 miles. Robert E. Kline, Dayton, Ohio, is Engr.-in-Chief of the lines. H. P. Lloyd is Vice-Pres., 66 Broadway, New York.

BOONE, IOWA.—We are officially advised that surveys have been made by the Boone, Webster City & Interurban Ry. Co. for its proposed electric line between Boone and Webster City. Right-of-way is partly obtained. E. E. Hughes is Pres., Boone; J. H. Moughmer is Ch. Engr., Des Moines.

FAIRFIELD, IOWA.—J. W. Andrews, Ch. Engr. of the Iowa-Missouri Traction & Power Co., Keosauqua, Iowa, informs us that contract has been let to the AMBURSEN HYDRAULIC CONSTRUCTION CO., 176 Federal St., Boston, for power dam in connection with company's proposed traction line from Fairfield to Memphis, Mo., with extension south to Mexico, Mo., and north to Keota, Iowa, a total length of 180 miles. Grading will cost about $3,200 a mile. Contract for building the railway will be let in January. A. Blackledge, Keosauqua, is Pres.

MINNEAPOLIS, MINN.—William Peyton Mason, Secy. of the Minneapolis, Rochester & Dubuque Traction Co., Chatfield, Minn., advises us that the line, which is projected from Minneapolis to Dubuque, Iowa, Via Rochester, Minn., and Decorah and Waukon, Iowa, 245 miles, will be built by sub-contracts. Right-of-way is partly secured. Surveys are made and capital obtained. D. K. Case is Ch. Engr., 114 South Fourth St., Minneapolis. Local lines in Rochester will be built this winter and next spring. Thirty-five miles are graded already.

CHEYENNE, WYO.—Lee A. Reynolds, of Denver, Colo., representing a syndicate, has applied to the City Council for a franchise to construct and operate a system of electric street railway here. The Council will hold a special meeting to act upon the application.

KANSAS CITY, MO.—The Kansas City & Northern Traction Co. has been chartered with $200,000 capital. The incorporators are: John H. Atwood, N. Y. Life Bldg., Kansas City; F. R. Jones; W. W. Hooper, of Leavenworth, Kan., and others. W. W. Rose is Pres., and W. J. Beard is Secy., both at Kansas City. Others interested are A. W. Farney and W. M Lewis. Total length will be 20 miles. It is to be a belt line.

SPRINGFIELD, MO.—T. P. McDonough, W. R. Forsyth and T. C. McFann, of Chicago, are backing the new electric road to be built from Springfield to Nevada, and are perfecting plans for beginning work. The road will be built for both freight and passenger traffic, and will be 95 miles long. The power-house will be located on the Sac River, 37 miles northwest of this city. It is intended to complete the system within one year.

AMARILLO, TEX.—The Amarillo Street Railway Co., capital $250,000, has applied for a charter to build eight miles of track. It is to be completed by next spring. The incorporators are John L. Brock and C. C. Harris, of Decatur, Ala.; and J. C. Paul, H. A. Noble, J. W. Crudgington, S. D. Wharton, W. E. Kirk, C. B. Pash and John K. Shireman, of Amarillo. Mr. Shireman is Secy.

HOUSTON, TEX.—Guy E. Tripp, Pres. of several Stone & Webster railways in Texas, is reported as saying that construction will begin by Feb. 1 on the Houston & Galveston Interurban Electric Railway. Three surveys have been made and the most desirable route for fast traffic will be chosen. M. M. Phinney, of Dallas, Tex., is Mgr., and D. P. Robinson, of Boston, is Engr. Stone & Webster's headquarters are at 84 State St., Boston.

VANCOUVER, WASH.—W. H. Moore, Pres. of the Oregon Trust & Savings Bank, of Portland, Ore., and L. B. French, of Portland, have been granted a 50-year franchise to build, operate and maintain a street railway system along the streets of Vancouver. The Council had deferred action in this matter for some time awaiting action of the Portland Railway Co., which signified its intention of applying for [illegible] franchise, but did not continue with [illegible] articles of incorporation of [illegible] Ar- will be filed this week.

OAKLAND, CAL.—The [illegible] Co., recently incorporated [illegible] Berkeley Traction Co. and [illegible] tion Consolidated, has issu- [illegible] Trac- special meeting of the sto- [illegible] held Jan. 15, to consider [illegible] new $12,000,000 bond issue [illegible] of a standing bonds and provide [illegible] ments. Various extensions [illegible] Berkeley to Point Richmond [illegible] sideration. W. F. Kelly is [illegible] the Oakland Traction Consoli- [illegible] of

SAN FRANCISCO, CAL.— [illegible] Supervisors will receive bids [illegible] of for the sale of a franchise to [illegible] 25 years for a street car line on [illegible] streets of the Parkside district, includi- [illegible] Ave., as petitioned for by the Parkside [illegible] Co.

BARRIE, ONT.—Town has g- [illegible] eric Nicholls, of Toronto, a fra- [illegible] Fred- electric railway, which is to be bu- [illegible] or an Canadian Pacific Ry., through t- [illegible] the distance of eight miles. Charter [illegible] applied for. Connection may b- [illegible] been Newmarket with the Metropolita- [illegible] of the Toronto & York Radial Ry. [illegible] may be extended to Orilla, Ont., to co- [illegible] with the Canadian Northern Ry. Mr. [illegible] is Pres. of the Niagara, St. Catharines & To- [illegible] Ry. onto Ry. Co.; Vice-Pres. of the T- [illegible] Co. and the Toronto & York Radial Ry. Co.

FREDERICTON, N. B.—An el- [illegible] street railway will be constructed from [illegible] to Grand Falls, a distance of 120 m- [illegible] F. Tweedie, M. L. A., and James [illegible] M. L. A., Edmunston, N. B., are int- [illegible]

EDMONTON, ALTA.—Council has [illegible] the offer of a Montreal [illegible] syndicate to build and equip [illegible] street railway and will construct and operate it under municipal ownership.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

AMSTERDAM, N. Y.—The Empire State Power Co. is contemplating the erection of four additional dams, two of which will generating stations on the Schoharie Creek near Burtonville. It is reported also that a storage plant will be erected at the upper valley of the river. C. M. Knight is Supt., at Amsterdam.

ALLENTOWN, PA.—The contract for the erection of a boiler-house for the American Wire Nail Co. has been awarded to WM. H. GANGEWERE, Allentown National Bank Bldg. It is to be a 1-story brick and steel building, 50 × 300 ft.

HARRISBURG, PA.—Plans are being prepared by the Pennsylvania Railroad Co. for a large power plant to be erected at Iroquois, which is near here. D. S. Newhall, Philadelphia, is Pur. Agt.

BALTIMORE, MD.—B. W. & E. MINOR, 20 Clay St., have been awarded the contract by the Crown Cork & Seal Co., Guilford Ave. and Oliver St., for the erection of a 2-story brick and concrete power-house, 24 × 26 ft., to be erected at Guilford Ave. and Laurale St.

WILLIAMSPORT, MD.—It is reported that Lloyd Lowndes, of Cumberland, Md.; Frank Ehlen, North and Fayette Sts.; Stuart S. Janney, 745 Calvert Bldg., and Henry F. Bridges, 1109 Calvert Bldg., of Baltimore, Md., and New York capitalists, propose organizing a company with a capital stock of $250,000 to develop water power at Dam No. 6 on the Potomac River. They contemplate transmitting the power by electricity for power and lighting purposes at Hancock, Md.; Berkeley Springs, W. Va., and other cities in that section.

BALTIMORE, MD. — Sunderland Bros., Archs., Eighth and G Sts., N. W., Washington, D. C., are ready for bids for the erection of a power-house and nurses' home for the University of Maryland Hospital. It is to be a 3-story, brick and steel, fireproof building. Estimated cost, $100,000.

RICHMOND, VA.—Bids are asked until 5 p. m., Feb. 1, for furnishing and erecting complete, the necessary buildings, machinery, apparatus, pipes, etc., for the rehabilitation and proper enlargement of the city gas works. Separate bids will be required for each specific branch of the improvements, also, a lump sum bid for the entire and complete rehabilitation. W. P. Knowles, Supt. (Advertised, Engineering News.)

BASIC CITY, VA.—THE BERLIN ELECTRIC CO., of Bridgewater, Va., has been awarded the contract to install an electric light plant at the plant of the Basic City Furniture Co.

CHARLESTON, S. C.—It is reported that the Charleston Consolidated Railway, Gas & Electric Co. is completing improvements to electric light and gas plants which will double the capacity of electric plant and increase the capacity of gas-generating plant 25%, involving an expenditure of about $30,000. A generator that will generate between 900 and 1,000 HP. is being installed and will be operated by a 750-HP. engine. Four additional benches have been added to the gas plant, making 16 benches in all. The company will also make improvements at its ferry wharf and at Mt. Pleasant. S. H. Wilson is Vice-Pres. at Charleston.

SENECA, S. C.—See under Water Supply and Irrigation.

VICKSBURG, MISS.—The Vicksburg Light & Power Co. has been incorporated with $100,000 capital stock by Harry K. Johnson, W. A. Pollock and O. W. Catching.

AMITE, LA.—The Central Light & Power Co. has been chartered. H. P. McClendon is Pres.; C. B. Pierce, Vice-Pres., and W. B. Senter is Secy. It has purchased the rights and privileges of the Tangipahoa Light & Power Co.

RIDGEDALE (Chattanooga post-office), TENN.—The WEST CONSTRUCTION CO., of this city, has been awarded the contract for remodeling and making an addition to the power plant of the Chattanooga Railway Co. in this city. The contract price was $50,000 and the power room when completed will be 68 x 100 ft. D. J. Duncan is Mgr., at Chattanooga.

SALEM, OHIO.—A franchise has been granted to the Youngstown & Ohio River Ry. & Light Co. for electric light, heat, and power service in this city. Will Christy, with Cleveland Construction Co., Akron, Ohio, is Vice-Pres.

ALEXANDRIA, IND.—The capacity of the plant of the Alexandria Electric Light & Power Co. is to be enlarged. Jos. E. Jeffries is Secy. at Alexandria.

BRAZIL, IND.—The Eel River Oil Co., recently incorporated, is asking for bids for the drilling of a number of oil wells. S. M. McGregor is Pres.

TERRE HAUTE, IND.—The Rescue Oil & Gas. Co. has incorporated to mine for oil. Bids for the drilling of a dozen wells will be received by A. D. Scott, H. B. Beenefield and W. C. Ball, Directors.

COLUMBUS, IND.—The Caldwell-Drake Structural Iron Works Co. is in the market for an engine, dynamo, sand blast and other electrical equipment for a new addition now building.

GREENFIELD, IND.—The city council has voted to repair and add considerable new machinery and electrical equipment to the City Electric Light Plant. J. A. Warrick is Ch. Engr.

TERRE HAUTE, IND.—The Vermillion Oil & Gas Co. is asking for bids for the drilling of a number of oil wells. L. Goodman, J. R. Young and E. M. Sparks are directors.

The Lockport Oil & Gas Co. has incorporated with $20,000 capital. The company will receive bids for drilling of five new wells. George J. Mattkemper, Pres.; Frank Buchanan, Secy.

WABASH, IND.—S. P. Shultz is at the head of a company of farmers who will soon ask for bids for the construction of a dam and power-house in the Missisenewa River; also for electric equipment for the plant.

MARSHALL, MICH.—It is reported that municipal light and power plant will be enlarged in order that the plant may be able to furnish power to all the local factories.

STEPHENSON, MICH.—T. F. Goulder, of Ingalls, has been granted a 30-year franchise for establishing an electric light plant here. He intends to erect a plant large enough to supply all lights needed for years to come, also power for manufacturing establishments in the city.

MILWAUKEE, WIS.—H. S. Bowen, of Chicago, has been appointed Superintendent of Construction for the proposed municipal electric light plant here.

OMAHA, NEB. The Omaha Electric Light & Power Co. has purchased two large lots on Auburn Hill on which will be erected in the spring a power sub-station at a cost of $10,000. The building will contain a transformer, turning the high voltage current from the central power plant to a low voltage one for the use of Benson and Dundee. Wm. B. Whitehorn is Pur. Agt., at Omaha.

The report that the Omaha & Council Bluffs St. Ry. Co. were to erect a power-house is not true. Noted in issue of Nov. 22.

FREMONT, NEB.—The City Water & Electric Light Plant will be improved, the improvements to cost $75,000. J. H. Mathews is Mgr. and Supt., at Fremont. C. A. Chapman, Monadnock Block, Chicago, Ill., is Engr.

ST. LOUIS, MO.—Trent Becroft, John N. Carswell, Charles Morsey and others have incorporated the Fort Scott-Nevada Gas Co. with a capital of $10,000.

BLYTHEVILLE, ARK.—The city has granted a franchise to the Blytheville Electric Light, Water & Street Car Co. to install water-works, electric light plant and ice plant.

COTTER, ARK.—It is reported that W. H. Standish, of Grand Forks, N. Dak., will install an electric light and power system here.

HAMILTON, TEX.—The Electric Light Co., capital $10,000, has been chartered here. The incorporators are: John L. Spurlin, George F. Perry, J. T. James, F. C. Williams, J. E. Secrest and A. R. Eidson.

GUNNISON, COLO.—The Council is contemplating an expenditure of $50,000 in improving the Gunnison Gas & Water plant. Robt. B. Lewis is Mgr., at Gunnison.

INDEX, WASH.—It is reported that the Skykomish Power Co., of Spokane, Wash., will erect a $75,000 electric power plant near here.

GOLD BEACH, ORE.—T. M. Keyser has secured water right on 500 inches of water of Hunter's Creek, for purpose of installing a power plant, to be used in smelting and refining the precious metals in the beach sands of Gold Beach. Plant will be located about six miles up Hunter's Creek at what is known as Little Canyon.

LOS ANGELES, CAL.—CARL LEONARDT has secured the contract to construct a power-house at Ocean Beach sub-division, Redondo Beach, for the Pacific Light & Power Co., at $72,000. A. C. Balch is Mgr., at Los Angeles.

PASADENA, CAL.—Bids are asked by the Mayor and City Council until Jan. 10, 1907, for furnishing equipment for Municipal Electric Light Plant. Herman Dyer is City Clk.

MONTREAL, QUE.—The Montreal Light, Heat & Power Co. has found it necessary to largely increase its power equipment, and has recently contracted with the CANADIAN WESTINGHOUSE CO. for apparatus to use in its new power station on the Soulanges Canal, about 40 miles west of Montreal, on the St. Lawrence. The equipment consists of three 3,750 KW. revolving-field alternating-current two-bearing generators, connected with water turbines. These generators are 7,200 alternators, 4,000 volts, three-phase, operating at 225 revolutions a minute. There are also two 150-KW. direct current 125-volt exciter units. An important part of the apparatus are 13 2,500-KW. oil-insulated, water-cooled transformers. Seven of these transformers will be used for raising the voltage at the generating station from 4,000 to 44,000 volts, the remaining six being used at the lowering end of the transmission line, stepping down the voltage from 44,000 to 12,000. Generators and exciters will be controlled by motor-operated rheostats, and the complete switchboard apparatus which the Westinghouse Co. is furnishing for both main and sub-stations, presents the highest development of switchboard apparatus. A. H. Edwards is Pur. Agt., at Montreal.

TORONTO, ONT.—The Hydro-Electric Power Commission has received applications for 124,495 HP. from 46 municipalities. Cost of the project will be estimated at once to be ready for the municipal elections in January.

LETHBRIDGE, ALTA.—The Alberta Light Co. has an agreement with the Council to bore a 6-in. hole 1,500 ft. deep for natural gas. Estimated cost, $10,000. Address Kenneth M. Fessenden.

STRATHCONA, ALTA.—The ratepayers have passed a by-law authorizing the expenditure of $35,000 for the construction of an electric lighting plant.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

LACONIA, N. H.—A steel or reinforced concrete bridge having a span 332 ft. long, about 33 ft. wide, will replace the wooden trestle across Winnipiseogee River at Elm St. Charles A. French is City Engr.

CAMBRIDGE, MASS.—The Cambridge Park Commissioners have awarded contract for construction of a steel concrete bridge over the Grand Junction tracks at Charles River Road to the W. A. MURTFELDT CO., 161 Devonshire St., Boston. This company's bid was the lowest, $12,640.

STOCKBRIDGE, MASS.—Miss Emily Tuckermann contemplates erecting a memorial brdige over the Housantonic River, to cost about $20,000.

FALL RIVER, MASS.—Plans, specifications and bidding sheet for constructing steel bridge at Fall River, as advertised Nov. 15 to 29, are on file at office of Engineering News, New York. Bids are asked until Dec. 17. R. M. Berrian, 53 State St., Boston, is Engr.

BRIDGEPORT, CONN.—Bids are asked until noon, Dec. 20, by Patrick Kennelly, Dir. Pub. Wks., for placing iron girders and beams under Yellow Mill Bridge. (Advertised, Engineering News.)

NEW YORK, N. Y.—Bids are asked until 2 p. m., Dec. 13, by J. W. Stevenson, Comr. of Bridges, for constructing foundations, abutment core and metal work of the steel viaduct of the Queens approach of the Blackwell's Island Bridge over the East River, between the Boroughs of Manhattan and Queens.

NIAGARA FALLS, N. Y.—It is reported that the Frontier Bridge Co., incorporated a year ago, will apply at the coming session of the Canadian Parliament for a Canadian charter for the company. The company proposes to build a bridge over the Niagara River in the lower gorge, to be part of a gigantic industrial development on both the Canadian and American sides of the river at a point in the vicinity of the Devil's Hole. George W. Knox, the American attorney for the bridge company, is reported to have announced that as soon as the Dominion Parliament had granted the company a charter for the Canadian approaches for the bridge, the work of construction would be immediately begun, and would be rushed to completion.

NEW ROCHELLE, N. Y.—PENNSYLVANIA STEEL CO., Girard Trust Bldg., Philadelphia, Pa.; L. F. SHOEMAKER & CO., Harrison Bldg., Philadelphia, and the RITER-CONLEY MFG. CO., 111 Broadway, New York, have been awarded the contracts to build 15 bridges on the New York, New Haven & Hartford R. R. between New York and New Rochelle.

Steel bridges will also be erected on the Naugatuck division between Waterbury and Winsted as soon as the engineers of the New York, New Haven & Hartford R. R. Co. finish their plans and contracts are awarded.

ALLENTOWN, PA.—The Lehigh Valley Transit Co. will erect a bridge 1,900 ft. long, double track will be laid, and the street will be asphalted for two blocks. An asphalt roadbed will be put on the bridge to be erected on South Eighth to South Allentown Sts. Warren S. Hall, Allentown, is Gen. Mgr. and Ch. Engr.

DUQUESNE, PA.—The Wabash R. R. has awarded contract to the AMERICAN BRIDGE CO., 42 Broadway, New York, for two new bridges on the West Side Belt between Saw Mill Run, where it joins the Pittsburg & Lake Erie R. R., and its junction with the Wabash-Pittsburg Terminal Ry., south of Duquesne Heights. There is to be one large girder bridge across a street and the other is for a long viaduct to replace the present wooden viaduct in the West End. The viaduct will be of the girder type, with steel columns. The two bridges will cost about $100,000. Another bridge at Saw Mill Run will be built soon. A. O. Cunningham, St. Louis, Mo., is Ch. Engr.

MONACA, PA.—A 4-track bridge will be erected by the Pennsylvania R. R. Co. across the Ohio River at Monaca. Joseph T. Richards, of Philadelphia, is Ch. Engr. M. W.; H. R. Leonard, Philadelphia, is Engr. Bridges.

PITTSBURG, PA.—It is reported that James W. Clark, Dir. Dept. Pub. Wks., has announced that two new bridges spanning the Pennsylvania R. R. tracks, one at the Center Ave. crossing and the other at Ellsworth Ave., will be built in the coming year. The Ellsworth Ave. bridge will be built of steel and will cost about $60,000; the other will be a concrete structure and will cost $50,000.

SEWICKLEY, PA.—Plans are being considered for the erection of a bridge over the Ohio River to have a span of 900 ft. Cost, $45,000. W. Y. Sibert, Government Bldg., is interested.

HAVRE DE GRACE, MD.—Surveys and plans have been completed for the construction by the Baltimore & Ohio R. R. Co. of a new bridge over the Susquehanna River at Havre de Grace. The bridge will be double-tracked, of iron and steel and will replace the present single-track structure. The estimated cost of the new bridge is from $1,000,000 to $1,250,000, exclusive of the cost of regrading and straightening the line. It will require two years to complete the structure.

EMPORIA, VA.—Bids are asked until Dec. 11, by the Board of Supervisors of Greenesville County, for construction of an iron trestle 160 ft. long, to be located in Emporia. E. Peyton Turner is County Clk.

SOUTH QUAY, VA.—Bids will be asked shortly by Nansemond and Southampton Counties for the construction of an iron bridge over Blackwater River at South Quay, for which plans have been approved. P. L. Everett is Supt. of Nansemond County, Suffolk, Va.

CHARLESTON, W. VA.—Bids are asked until 8 p. m., Dec. 20, by the City of Charleston for constructing a highway and traction bridge over Elk River, on the line of Virginia St. J. F. Hudson is Chn. Bridge Com. The official advertisement sent us gave the date for receiving bids as Dec. 30, but we are advised that this was an error. Plans and specifications are on file at New York office of Engineering News. (Advertised, Engineering News.)

SHEPHERDSTOWN, W. VA.—We are officially advised that no decision has been reached regarding bridge over the Potomac River, at Shepherdstown. J. E. Crawford is Bridge Engr., Norfolk & Western Ry. Co., at Roanoke, Va. Noted fully on Nov. 1.

CHARLESTON, W. VA.—Plans and specifications for bridge to be constructed over the Elk River at Virginia St., Charleston, as advertised, are on file at the office of Engineering News, New York. Bids are asked until Dec. 27.

JACKSONVILLE, FLA.—H. M. Knauth, Supt. of County Roads, has completed plans for reinforced steel concrete arch to be erected over Long Branch by Duval County.

JACKSONVILLE, FLA.—J. W. Richardson, Engr.-in-Charge, Atlantic & East Coast Terminal Co., writes us "that in addition to the steel span over Bay St. and the warehouses on Bay St., we also have a subway to build on Myrtle Ave. under the Jacksonville Terminal Co.'s tracks. This will have two driveways and sidewalks, and space for street car tracks. It will be of concrete and steel construction, and approximately 500 ft. long, including approaches. We will be glad to hear from competent contractors to bid on this work. Plans and specifications will be ready about Dec. 10, and they can be obtained at this office."

WEST POINT, KY.—It is reported that the Louisville, Henderson & St. Louis Ry. Co. will rebuild drawbridge over Salt River, recently destroyed by flood at a loss of about $55,000. L. M. Cox, Louisville, Ky., is Ch. Engr.

CINCINNATI, OHIO.—Plans have been submitted by the Department of Track Elevation and Subways for an aqueduct to be constructed at Dodsworth Ave. This aqueduct will carry the canal across Streng St., as extended in accordance with the plans of Jules Bouscaren, Engr., and will cost about $40,000. It will be of concrete, with a 60-ft. span, and a 50-ft. concrete approach at each end. It will be 45 ft. wide. Of this, 21 ft. will be for the canal proper, five ft. for the towpath and 13 ft. for the "electric mule" way. It will be 25 ft. above Streng St. at the center. The street will be 50 ft. wide, with a 10-ft. sidewalk on each side.

GREENFIELD, IND.—Bids are asked by the Commissioners of Hancock County until 10 a. m., Dec. 29, for constructing 112-ft. span bridge over Sugar Creek in Sugar Creek Township and one 30-ft. steel and concrete bridge over ditch in Blue River Township. W. J. Garriott is County Audr.

SUPERIOR, WIS.—The Belknap St. viaduct, it is reported, will be extended 500 ft. to Oakes Ave. The Great Northern and other railroad companies are interested. Cost, about $75,000. A. H. Hoagland, is Ch. Engr., St. Paul, Minn.

Plans have been prepared by the City Engineer for reconstructing the Fourth St. bridge across the Nemadji River, to be about 600 ft. long, costing about $19,000.

APPLETON, WIS.—We are officially advised that the WISCONSIN BRIDGE & IRON CO., Milwaukee, Wis., has secured contract for constructing the superstructure of a 138-ft. counter-balanced swing bridge, 20 ft. wide, over Government Canal, at the end of John St. Bids were received Nov. 1, contract let Nov. 26. Contract price, $10,455. Charles H. Gillett is City Surv.

MILWAUKEE, WIS.—The Board of Supervisors is receiving plans and specifications for the construction of the Grand Ave. viaduct. Estimated cost, $150,000.

SIOUX FALLS, S. DAK.—Bids are asked by C. E. Hill, County Audr., until Dec. 15, for building and repairing all bridges that may be ordered by the Board of County Commissioners of Minnehaha County in 1907.

BELLE FOURCHE, S. DAK.—The Secretary of the Interior has granted an extension of 60 days time to the Canton Bridge Co., of Canton, Ohio, for the construction of five highway bridges over the main supply canal, Belle Fourche irrigation project, S. Dak. The contractors were delayed by the failure of the manufacturing companies to promptly deliver the structural materials.

RANCHER, MONT.—A 700-ft. bridge will be constructed across Yellowstone River at Rancher. Robert Cole is Secy. Bd. Comrs., Rosebud County.

DENVER, COLO.—It is reported that a viaduct will be constructed across the railroad tracks between Denver and North Denver. Estimated cost, $400,000. John B. Hunter is City Engr.

SPOKANE, WASH.—Bids are asked until Dec. 14 by the County Comrs. for constructing a bridge across the Spokane River at D St.

PENDLETON, ORE.—The Oregon Railroad & Navigation Co., it is reported, will construct a steel bridge across Umatilla River at this point. G. W. Bosche, Portland, Ore., is Ch. Engr. Estimated cost, $35,000.

SAN FRANCISCO, CAL.—It is reported that Col. W. H. Heuer, Div. Engr. Pacific Division, Corps of Engrs. U. S. Army, has announced that the department has approved the application of the Southern Pacific Co. for a drawbrige across Dumbarton Point. The bridge will be about 6,000 ft. long. The plans of the Southern Pacific for the work are all complete and call for the construction of the bridge, of which 3,200 ft. will be on piles with a draw of two spans, each of 126 ft. W. Hood is Ch. Engr., San Francisco.

PARKER, ARIZ.—A bridge will be erected across the Colorado River in the vicinity of Parker, which the Atchison, Topeka & Santa Fe Ry. Co.'s new line, known as the Arizona & California Ry., will construct. It is reported that the company will expend about $1,000,000. A. F. Robinson, Chicago, Ill., is Bridge Engr.

MAIN RIVER, N. B.—JAMES McDERMOTT, of this town, has been awarded the contract for the bridge across Richabucto River, and WILLIAM MUDDLE, the iron bridge over Belle Creek, on the Upper Main River.

WINNIPEG, MAN.—The following bids have been received by the City Council for construction of the Redwood bridge across the Red River: Dominion Bridge Co., Montreal, Que., $88,800; Algoma Steel Co., $92,000; Ontario Bridge Co., $97,200; Heenan & Fronda, Manchester, England, $192,144; William Jackson, $278,000. The Council will hold a special meeting to consider these tenders. H. N. Ruttan is City Engr.

VANCOUVER, B. C.—C. E. Bell, C. E., Victoria, B. C, has reported to the Dominion Government that the cost of bridging the Narrows between Vancouver Island and the mainland will be about $25,500,000. Seven bridges varying in length from 700 to 1,500 ft. will have to be built besides an enormous span of 2,800 ft. across the Narrows. About 60,000 tons of steel will be required. An effort will be made to have the work started early next year.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

NEWPORT, R. I.—Bids are asked until 3 p. m., Jan. 7, 1907, by James Knox Taylor, Supervis. Arch., Treasury Dept., Washington, D. C., for the construction of extention to U. S. post-office and custom-house at Newport, R. I. (Advertised, Engineering News.)

NEW YORK, N. Y.—The following bids were received Dec. 3 for the construction of Public School No. 17, on 47th and 48th Sts., near Eighth Ave., Boro. of Manhattan: P. Sullivan, Grand St. and Third Ave., $492,000; R. E. Heningham, 1 Madison Ave., $459,273; Clarke & Stowe, $432,000; P. J. Brennan & Son, 949 Broadway, $464,000; Thos. Cockerill & Son, 147 Columbus Ave., $473,000; Waters & O'Connell, 103 East 125th St., $459,000. For installing electric equipment in Public School 148, at Ellery and Hopkins Sts., Boro. of Brooklyn, the two lowest bids received were: Griffin & Co., 150 Nassau St., $16,887; The I. Pearce Co., 20 Rose St., $16,950.

NEW YORK, N. Y.—Mrs. William E. Dodge has given $100,000 to the Children's Aid Society for the establishment of a lodging house for homeless boys in Harlem.

W. & J. Manzer, 10 Wall St., have purchased the Barney plot, at 29-35 West 32d St. and 30-34 West 33d St. and will erect thereon a 12 or 15-story business building at an estimated cost of $1,000,000. Plans are being prepared by Clinton & Russell, Archs., 32 Nassau St.

Bids are asked by James Knox Taylor, Supervis. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Dec. 21, for the installation of a vacuum cleaning system for the U. S. Custom House Building, in New York.

NEW YORK, N. Y.—Plans for the new terminal buildings for the New York & New Jersey Railroad announced last week by William G. McAdoo, Pres. of the company. There will be two buildings in Church St., from Cortlandt to Dey St. and from Dey to Fulton St. The northerly building will be known as the Fulton building and the southerly as the Cortlandt. They will each be twenty-two stories high above the surface and will extend 75 ft. below the street line to bed rock. There will be space for 4,000 offices, and when completed, it is said, the terminals will constitute the largest office structures in the world. The structures will be examples of Italian rennaisance. Up to the fourth story they will be built of polished granite and Indiana limestone. Above that will be brick and terra cotta. The halls will be of marble and the building will be finished in hardwood throughout. The proposed terminals will contain about three times the space of the Broadway Exchange building, the largest at present in Manhattan. Beneath these buildings will be the terminal station of the Hudson & Manhattan Railroad Co., which will operate the tunnels being built under the Hudson River. Passengers will enter upon the street floor and pass

down into the station by means of easy stairways, inclined planes and elevators. The first floor below the sidewalk will be known as the concourse. Here will be waiting rooms and ticket booths. Below this will be the train platforms. The Church St. terminal buildings will cost about $8,000,000.

NEW YORK, N. Y.—Bids are asked until 3 p. m., Dec. 21, by James Knox Taylor, Supervis. Arch., Treasury Dept., Washington, D. C., for furnishing and installing a vacuum cleaning system in the Custom House, New York City.

ATLANTIC CITY, N. J.—Bids are asked until 3 p. m., Dec. 20, by James Knox Taylor, Supervis. Arch., Treasury Dept., Washington, D. C., for additions and alterations at the U. S. Post-office, Atlantic City.

PHILADELPHIA, PA.—Joseph N. Huston, Arch., Witherspoon Bldg., has prepared plans for a row of six stores to erected on 15th St., extending from Sansom to Moravian Sts., by the Union League Club. The entire improvement will cost about $1,000,000.

PHILADELPHIA, PA.—The contract has been awarded to WM. STEEL & SONS, 1600 Arch St., for the erection of a warehouse at Walnut and Delaware Ave., for C. J. Webb & Co. It is to be a 10-story, reinforced-concrete building and will cost $700,000. Power plant, steam heating and elevators will be required.

PITTSBURG, PA. — The AMERICAN BRIDGE CO. has been awarded the contract for the steel to be used in the enlargement of the Southside station of the Pittsburg & Lake Erie R. R. Co. Estimated cost, $200,000.

Plans have been prepared for a $950,000 post-office to be erected here.

TAMAQUA, PA.—Seymore & Paul A. Davis, Archs., 1600 Chestnut St., Philadelphia, are preparing plans for a 3-story bank and office building to be erected by the Tamaqua National Bank. It is to be of brick and steel and of fireproof construction. Estimated cost, $50,000.

ANNAPOLIS, MD.—NOEL CONSTRUCTION CO., United States Fidelity & Guaranty Bldg., Calvert and German Sts., Baltimore, Md., has contract at $157,000 for the construction of the Naval Experiment Station at Old Fort Madison, across the Severn from the Naval Academy.

BALTIMORE, MD.—Plans have been submitted for a new union station at North Ave. and Jones' Falls, by Calvin W. Hendrick, Ch. Engr. Sewerage Commission.

BALTIMORE, MD.—Bids are asked until noon, Jan. 4, 1907, by Lieut.-Col. R. L. Hoxie, Corps Engrs., U. S. Army, for Ragged Point light-house, Potomac River, Va. (Advertised, Engineering News.)

WASHINGTON, D. C.—Specifications and form of proposal for engines, generators, substation apparatus, storage batteries and switchboards for power-house to be erected at the Capitol Building, are on file at office of Engineering News, New York City.

WASHINGTON, D. C.—Bids were opened Nov. 29, at the Reform School, Washington, D. C., for the reconstruction of the Reform School buildings destroyed by fire recently. The only two bids completely complying with specifications were those of Pavarini & Wyne, Munsey Bldg., Washington, $92,694, and Richardson & Burgess, Colorado Bldg., Washington, $92,277.

RICHARDSON & BURGESS, INC., Colorado Bldg., have been awarded the contract for the erection of an office building at 1307-09 G St. N.W., for the Church of The Epiphany. It is to be a 5-story brick and stone building. Estimated cost, $50,000.

ELKINS, W. VA.—Plans by James P. Chaplin, New Martinsville, W. Va., have been adopted by the Grand Lodge I. O. O. F. for proposed $100,000 Odd Fellows' Home.

ATLANTA, GA.—Plans have been prepared for the erection of a business building for the Atlanta, Birmingham & Atlantic R. R. Co. Morgan & Dillon, Prudential Bldg., are Archs. Estimated cost, $200,000. Alexander Bannyman is Ch. Engr.

SAVANNAH, GA.—Bids are asked until about Jan. 1, 1907, by the City of Savannah for the erection of a 3-story high school. Owens & Sisco, Continental Bldg., Baltimore, Md., are Archs.

NEW ORLEANS, LA.—The JEFFERSON CONSTRUCTION CO. has been awarded the contract for the erection of the Carnegie Library building. It is to be a 1-story fireproof building, 92 × 152 ft., with a steel trussed dome. Estimated cost, $194,900. Diball & Owen, Archs., 217 Baronne St., prepared the plans.

W. T. CAREY & BRO. have been awarded the contract to erect the 10-story brick and stone office building for the Baronne Street Improvement Co. Estimated cost, $225,000.

CLEVELAND, OHIO.—The Methodist Episcopal Church will erect a hospital on Carnegie Ave. near East 71st St. Estimated cost, $100,000. It is to be called St. Luke's Hospital.

FLINT, MICH.—A new 2-story freight depot will be erected here early in the spring by the Grand Trunk. The structure will be 400 ft. long and will be built of brick and stone. The upper story will be devoted to the use of the clerical employees.

CHICAGO, ILL.—The Knights of Columbus of Chicago will erect a central Roman Catholic lay temple here for the clubs and various fraternal and social organizations of Roman Catholics. Estimated cost, $200,000.

Bids are asked by James Knox Taylor, Supervis. Arch., Treasury Dept., Washington, D. C., until 3 p. m., Dec. 12, for changes and additions to auxiliary mail conveyors in the U. S Post-office and Court-house in Chicago.

MINNEAPOLIS, MINN.—It is reported that a new union station will be erected on the site of the present station on Bridge Square.

FORT ROBINSON, NEB.—Bids are asked by Capt. Leon S. Rondies, Constructing Q. M., until 10 a. m., Dec. 20, for various officers' quarters, barracks and stables at Fort Robinson.

OMAHA, NEB.—The Union Pacific R. R. Co. will erect a 10-story headquarters building at Dodge and 15th Sts. Estimated cost, $1,000,000. It is to be of steel, stone and brick, of fireproof construction.

FORT ASSINNIBOINE, MONT.—Bids are asked until 11 a. m., Dec. 29, by Capt. J. J. Boniface, Constructing Q. M., for the construction of shelter of wells at Fort Assinniboine. (Advertised, Engineering News.)

ST. LOUIS, MO.—The buildings to be erected by the Ely Walker Dry Goods Co., for which JAMES STEWART & CO., St. Louis, Mo., have contract for construction, will consist of a mercantile building seven stories high, 150 × 337 ft., and warehouse eight stories high, 155 × 155 ft., of fireproof construction. Cost of completed building, $1,500,000. Eames & Young, Archs., Lincoln Trust Bldg., prepared the plans.

The Schwab Clothing Co. will erect a 12-story building on Washington St., near Twelfth St. It is to be of steel frame construction and will be fireproof. Estimated cost of building and lot, $1,000,000.

LITTLE ROCK, ARK.—A Carnegie library is to be erected here, at a cost of $100,000. W. E. Lenon, T. M. Mehaffy and H. F. Auten are members of the library committee.

GALVESTON, TEX.—Bids are asked by John M. Murch, County Auditor, until Dec. 10 for the installation of a heating plant for the county jail.

COLORADO SPRINGS, COLO.—Dr. F. E. Caldwell, 119 Henry St., Brooklyn, N. Y., it is reported, will erect a $150,000 sanitarium here.

SPOKANE, WASH.—The Spokane & Eastern Trust Co. will replace its present building, at Howard St. and Sprague Ave., by a new building at a cost of $100,000.

PORTLAND, ORE.—The Board of Trade Building Association will erect a 10-story building, 100 × 100 ft. David C. Lewis, Chandler's Building, is Arch. Estimated cost is $300,000.

LOS ANGELES, CAL.—H. Rector will erect a $150,000 apartment house on Figueroa St., near Ninth St.

It is reported that the Public Park & Casino Association will erect a $150,000 building at Vernon Ave. and Colorado St.

SAN FRANCISCO, CAL.—L. B. Dutton, Arch., 101 Chronicle Bldg., has completed plans for an 8-story building for the Eyre Investment Co., to be erected at Sutter and Kearny Sts. It is to be a steel frame building and will cost $165,000.

MONTREAL, QUE.—ADOLPHE REENS has been awarded the contract to erect a concert and dancing hall on Berthelet St., at a cost of $500,000. J. M. Rodden is Arch.

OTTAWA, ONT.—Tenders will be called during the beginning of December for the erection of an entrance hall on the front of Rideau Hall. Estimated cost, $100,000. Fred. Gelinas, Secy. Dept. of Pub. Wks., Ottawa.

TORONTO, ONT.—Chadwick & Beckett, Archs., have been instructed to at once commence work on preparing plans for a new St. Albans Anglican Cathedral. Estimated cost, $4,000,000.

Willis & Co. will erect a 10-story piano warehouse, 246 × 90 ft., on Drummond St. The plans call for a steel and fireproof building, with Indiana limestone. John James Browne & Sons., Archs., of this city, are preparing the plans.

WINNIPEG, MAN.—Herbert B. Rugh, Arch., Union Bank Bldg., is preparing plans and will shortly call for bids for the construction of a 5-story brick and stone 132 × 90-ft. warehouse for the Fairchild Co., Princess St., Winnipeg.

ST. BONIFACE, MAN.—Bids are asked by G. A. Rocan until noon, Dec. 20, for the purchase of $100,000 20-year 5% school debentures.

NORTH BATTLEFORD, SASK.—The Massey-Harris Co., of Toronto, will erect a large distributing warehouse here.

REGINA, SASK.—The International Harvester Co. has plans for a 200 × 80-ft. 3-story brick block to be erected on Dewdney St.

VANCOUVER, B. C.—Plans have been submitted for the erection of the $400,000 building which is to be erected by the Bank of Commerce at Hastings and Granville Sts. It is to be of reinforced concrete, granite and steel.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

BEVERLY, MASS.—Water Commissioners opened bids on Nov. 21 for a 6,000,000-gal. pump with a guaranteed duty of 150,000,000 ft.-lbs. The bids were as follows: Hanley Mfg. Co., Buffalo, N. Y., $62,500; Allis-Chalmers Co., Milwaukee, Wis., five bids, $51,700; $57,300; $49,570; $55,000, $49,000; Platt Iron Works Co., Dayton, Ohio, $47,740. No award was made, the bbids being taken under consideration.

NEW YORK, N. Y.—John H. O'Brien, Comr. of Water Supply, Gas and Electricity, has asked the Board of Estimate and Apportionment for $5,133,000. He wants $4,000,000 for the new filtration plant at Jerome Park reservoir. The other money is for improving the water supply. The new filter for the water to be stored in the Jerome Park reservoir will cost about $12,000,000. The plant will not only filter the water, but be a safeguard against the sun's light and heat rays in summer.

LESTERSHIRE, N. Y.—It is reported that Lestershire is planning a new system of water-works for the village.

UNADILLA, N. Y.—The Sidney Water Co. is contemplating extensive additions to its water supply next season. Land has been purchased for a reservoir at Peckham Brook in the town of Unadilla, and a dam 25 ft. in height will be constructed in the spring, which will produce a pond and reservoir larger than any of the present system, and give a water pressure equal to that of the present works. This will require a little over one mile of iron piping to connect with the water mains reaching toward Guilford from this village. It is estimated that the cost of the contemplated improvement will be not less than $20,000.

YONKERS, N. Y.—We are officially advised that at a meeting of the Board of Water Commissioners, held Dec. 1, the contract for installing a 6,000,000-gallon cross-compound crank and fly-wheel pumping engine was awarded to the PRESCOTT STEAM PUMP CO., at $21,790. A. W. Kingsbury is Clk.

PHILADELPHIA, PA.—Bids are asked until noon, Jan. 4, 1907, by John R. Hathaway, Dir. Dept. Pub. Wks., for installing, contract No. 93, pumping engines for Lardner's Point Pumping Station No. 3, and for Contract No. 88, coal-handling machinery and pockets for the Torresdale pumping station. (Advertised, Engineering News.)

PHILADELPHIA, PA.—Bids are asked until Dec. 12 by John R. Hathaway, Dir. Dept. Pub. Wks., for the following: Furnishing workmen, tools and machinery, etc., for general repairs to engines, boilers, buildings, grounds and reservoirs, and cases of emergency. Contract No. 83; removal of pumping engine from the Spring Garden Pumping Station to the Roxborough Pumping Station. Contract No. 84; for pump chamber castings and valve seats for Roxborough Pumping Station. Contract No. 87; for plungers, pump chambers and valve seats, intermediate pump chambers and valve seats and air chambers for Queen Lane Pumping Station. Contract No. 88; and for hauling water pipe and machinery.

FORTRESS MONROE, VA.—Bids are asked until noon, Dec. 31, by Capt. R. H. C. Kelton, Const. Q. M., for constructing $80,000-gallon steel water tank at Fort Monroe. (Advertised, Engineering News.)

WHEELING, W. VA.—A new water-works system will be installed within a few weeks by Hesse & Kirchner in the second addition of Mozart Terrace lots, which they have recently opened to the public. The contract has been let for the drilling of a 10-in. artesian well which, when completed and electric pumps are installed, will furnish a supply of water in quantities large enough to supply the entire addition. It is planned that the water will be forced from the well to the top of the hill, a distance of over 2,700 ft. The water tanks are now being constructed and work will be started on drilling the well in three or four weeks.

CHARLESTON, W. VA.—Following are the bids received by the Bureau of Yards and Docks, Navy Dept., for pump well, house over same, and culverts, Dry Dock No. 1, Navy Yard, Charleston. (Specification No. 1508.) Bids were received until 11 a. m., Dec. 1. The Simons-Mayrant Co., 16 Broad St., Charleston, Item 1, $68,973; Item 2, $54,818; Item 3, $13,155; Item 5, $165; Item 6, $1,000, deduct. C. M. Leach, Navy Yard, Boston, Mass., Item 1, $65,983; Item 2, $53,000; Item 3, $15,000; Item 4, $67,983; Item 5, $100.

SENECA, S. C.—The city has voted to issue $30,000 in bonds for water-works and electric light plant. The Commissioners of Public Works are L. A. Edwards, W. F. Austin and J. W. Bird.

PELHAM, GA.—The citizens propose to construct water-works and electric light systems, at a cost of $40,000.

CHICAGO HEIGHTS, ILL. — Bids are asked until Dec. 17 by John Gravelot, City Clk., for the purchase of two simple, duplex steam pumps; also one cross compound air compressor, all located at pump station, Chicago Heights.

TRACY, MINN.—It is reported that the city has voted $12,000 of bonds for improving the water and light systems.

BOWBELLS, N. DAK.—We are officially advised that the work mentioned in issue of Nov. 8, toward construction of water-works and sewer systems here, will be continued in the spring of 1907. D. E. McLellan is City Audr.

SHOSHONI, WYO.—The town of Shoshoni has granted the Shoshoni Water Co. a franchise to construct and maintain a water-works system. Water will be brought from the Big Horn River in a 6-in. pipe.

EXCELSIOR SPRINGS, MO.—We are officially advised that W. A. Bell is having water-works constructed here, which will cost about $100,000, and be completed early in July. The water will be taken from the Missouri River, a distance of five miles. A line of 10-in. c.-i. pipe and a pumping station of 1,000,000 gallons capacity will be constructed. Henry J. Arnold is Mgr.

BLYTHEVILLE, ARK.—See under Light & Power Plants.

ARGENTA, ARK.—The Home Water Co. has been granted a 35-yr. franchise by the City Council, conditioned on their laying five miles of additional mains and putting in fifty additional fire hydrants on the streets of Argenta, as the Council may direct.

FAYETTEVILLE, ARK.—We have been officially informed that the Improvement District formed by the City Council has been confirmed by a majority of the property holders. The city will now buy the water plant, and install a system of sewers.

SHAWNEE, OKLA.—It is reported that $165,000 will be spent in the extension to the water-works at this town and the construction of a system of sewers.

MARLIN, TEX.—The City has voted to issue $16,000 of bonds for the purpose of improving the water-works system.

CORTEZ, COLO.—We are officially informed that the Board of Water Commissioners of Montezuma Irrigation District, Cortez, Colo., are having a survey made for the extension of their irrigation system. Estimates have not been completed on this, but it will involve the expenditure of several hundred thousand dollars. [illegible] Gordon is Pres. of the Board. J. H. [illegible] Engr., Durango, Colo.

AZTEC, N. MEX.—We are advised that the Citizens' [illegible] ally advised that the Citizens' [illegible] of Aztec, is preparing to receive bids for [illegible] miles of irrigation canal, involving [illegible] hundred thousand cubic yards of excavation and [illegible] thousand sand feet of tunnel and [illegible] thousand feet of flume. The Secretary [illegible] company is Mr. C. E. Spath, of Aztec.

The New Eden Ditch Co. [illegible] has under consideration and will receive bids for the construction of [illegible] miles of irrigation ditch system, [illegible] about 500,000 cu. yds. of earth and [illegible] cu. yds. solid rock, a mile of flume and [illegible] work in general. W. H. Black, of Aztec, [illegible] Secy. J. H. Eby is Engr., Durango.

NORTH YAKIMA, WASH.—[illegible] to the fact that no bids were received for the construction of a dam at the outlet of [illegible] Lake, Wash., in connection with the [illegible] irrigation project, the Reclamation Service has asked authority for the [illegible] this work by force account. The [illegible] this work is to be done is very [illegible] the railroad. As there seems [illegible] probability that readvertising [illegible] in receiving bids, and it being [illegible] such readvertising would cause [illegible] an entire season, it is extremely important that the work should begin at once by force account. The estimated cost of the [illegible] is about $140,000.

TACOMA, WASH.—GEORGE [illegible] MILTON SAVAGE has been awarded contract by Commissioner of Public Works for [illegible] of seven new wells at South Tacoma at [illegible] 703, and city reservoirs at $43,937. Mr. [illegible] Savage will recommend the laying of a [illegible] main which will make cost much less.

KLAMATH AGENCY, ORE.—Bids are asked by the Commissioner of Indian Affairs, Washington, D. C., until 2 p. m. Dec. 28, for constructing water works and sewer systems at this point. Further information may be obtained from Horace G. Wilson, Superintendent, Klamath Agency, Ore.

YOUNTVILLE, CAL.—M. E. Nurse, Engr. of Pub. Wks. Comn., is having plans made for a reservoir that will be built in the hills near the Veterans' Home at Yountville. The reservoir will hold 30,000,000 gallons of water. A septic tank will also be installed at the Home.

SAN FRANCISCO, CAL.—The Board of Supervisors has requested Thomas P. Woodward, City Engr., to prepare plans with an estimate of cost for the construction of a high pressure of salt-water fire protection system.

SUMMERSIDE, P. E. I.—The Town Council of Summerside has decided to at once install a fully modern water system.

HULL, QUE.—The City Council has voted $18,000 for new 450-ft. water-works intake pipe extension, to be laid in an excavation on the river bed. A new inlet pipe will be constructed.

FORT WILLIAM, ONT.—Bids are asked until 6 p. m., Dec. 22 (change of date), by A. McNaughton, Secy. Bd. of Water and Light Comrs., for constructing water-works. H. L. Hancock is Town Engr. (Advertised, Engineering News.)

WINNIPEG, MAN.—Bids are asked by J. C. Gibson, Chn. of the Fire, Water and Light Com. until 2.30 p. m., Dec. 31, for supply of a quantity of water pipes and specials, manholes, gates, hydrants, valves etc. H. N. Ruttan is City Engr.

ARCOLA, SASK.—The Council of Arcola will install a water-works system, at a cost of $30,000. J. S. Rush, Arcola, is interested.

NORTH BATTLEFORD, SASK.—Willis Chipman, C. E., 105 Bay St., Toronto, Ont., has been engaged by this town to prepare plans and estimates for water-works and sewer systems.

VICTORIA, B. C.—The City Council has passed a by-law authorizing the expenditure of $300,000 for improvement of the water-works system.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

ROXBURY, MASS.—The lowest bid received Nov. 26 for constructing sewer in Glendon St., Roxbury, was that of T. J. O'Connell, Dorchester, Mass.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Dec. 18, by Louis F. Haffen, Pres. Boro. of the Bronx, for constructing outlet sewer in Ave. E, between East 152d St. and Westchester Ave.; for building trunk sewer in Park Ave., south of East 153d St., and for constructing sewers in Albany Road, Bailey Ave., West 231st St., Perry and Shakespeare Aves.

NIAGARA FALLS, N. Y.—FRANK S. TEARNEY has secured contract at $6,492, for constructing sewer in an alley near Niagara St. M. FINDLAY has been awarded the contract of building a sewer at $3,126, to be laid on Niagara St., near Portage Road. W. H. COOKMAN has secured contract to construct sewer in [illegible] St., at $7,980.

BUFFALO, N. Y.—Francis G. [illegible]ard, Comr. of Pub. Wks., has been directed to contract with DARK & CO., 670 Main St. for cleaning and repairing the Swan [illegible] Fourth Sts. trunk sewer, between [illegible]aulic and Albany Sts., at their bid of [illegible]00, they being the lowest responsible [illegible]rs. A. W. Hoffman is Des. Engr., C. M. [illegible]se is City Engr.

Bids are asked until 11 a. [illegible] Dec. 13, by the Department of Pub[illegible] Works for constructing 12 to 18-in. tile [illegible] in Humboldt and Agassiz Pls., and [illegible] Brewster St.

READING, PA.—The Bo[illegible] of Public Works has authorized an [illegible] of $95,500 bonds for building sewers.

PHILADELPHIA, PA.—We are officially advised that DAVID McMAHON, Main St. and Chelten Ave., has secured contract for extension of Wissahickon low-level intercepting sewer along the Wissahickon Creek through property, from a point south of Rittenhouse Lane. Appropriation, $50,000. ROBERT HIGGINS, 4655 Lancaster Ave., has contract for constructing Cobbs Creek intercepting sewer on the line of 75th St., from Cobbs Creek to Grays Ave.; Grays Ave. from 75th to Island Ave.; Island Ave. from Grays Ave. to Woodland Aves., thence on the east side of Cobb's Creek through unopened streets and through opened streets from Woodland Ave., northwardly. Appropriation, $75,000. The Wissahickon intercepting sewer will have a length of 2,000 ft. from the point of connection with the Wissahickon Creek from a point south of Rittenhouse Lane. It will be constructed of brick and cement and will have a diameter of 3 ft. 6 ins. for the conveying of sewage from Germantown, Chestnut Hill and the west side of Roxborough to the pumping station low-level sewer, which will carry the sewage to below the city's water connections on the Schuylkill. The Cobb's Creek sewer proposals provide for the construction of about 3,562 lin. ft. of an intercepting sewer system, beginning on the line of 75th St. The bids covered the construction of a sewer 4-ft. 9-ins. in diameter. The length of tunnel work was estimated at about 600 ft. John R. Hathaway, Dir. Dept. Pub. Wks., received bids for above work on Nov. 27.

BELLEVUE (Allegheny post-office), PA.—Bids are asked until Dec. 11 by J. M. Simeral, Clk. of Council, 69 Harrison Ave., for constructing about 1,200 ft. 8-in. sewer in Oregon Ave., and an alley. John McBride is Boro. Engr., 516 Fitzsimmons Bldg., Pittsburg.

PITTSBURG, PA.—It is reported that surveys are being completed for a sewer in Nine Mile Run which will have a total length of 10,000 ft. and will vary from 5 to 10 ft. in diameter. A survey has also been made and plans are being prepared for a sewer that will relieve the sewer in Fifth Ave. This relief sewer will be 5 ft. in diameter, and will be in tunnel in rock for about 1,400 ft. Contracts for both of these pieces of work will be awarded so that construction can be carried on next season. E. M. Wilkins is Supt. Bureau of Construction, Dept. of Pub. Wks.

BALTIMORE, MD.—Bids for the machinery for the large pumps of the sewage system were received Nov. 27 by the Board of Awards and are said to be considerably higher than had been estimated by the Sewerage Commission. Bids were submitted on three different types of pumps. All the bids were referred to the Sewerage Commission for consideration. The Bethlehem Steel Co., of South Bethlehem, Pa., is the lowest bidder, its figure being $450,000. The other bids are as follows: William Tod Co., Youngstown, Ohio, $484,400; Camden Iron Works, Cooper's Creek and Line St., Camden, N. J., $485,000; Holly Manufacturing Co., Roberts Ave. and Clinton St., Buffalo, N. Y., $479,000; Allis-Chalmers Company, Milwaukee, Wis., $473,000.

The pumping station is to be located at President St. and East Falls Ave., and will be the largest of its kind in the world. It will pump all the sewage of the lowland section of the city to a height of 72 ft. where it will empty into the outfall sewer and then flow by gravity to the disposal plant, on Back River.

WASHINGTON, D. C.—Bids were opened Dec. 3 at the office of the Commissioners of the District of Columbia for the construction of a trunk sewer at Ivy City, D. C. The bids were on (a) 14,800 cu. yds. of excavation; (b) 162 cu. yds. of sewer brick masonry; (c) 294 cu. yds. of vitrified brick masonry; (d) 1,300 cu. yds. concrete masonry "B"; (e) 1,014 cu. yds. concrete masonry "C". W. F. Brenizer, Second and O Sts. S. E., Washington, (a) $1.10; (b) $14; (c) $22; (d) $7.75; (e) $7.50. Edward Saxton, 840 Bladensburg Road, Washington, (a) $1.04; (b) $14.80; (c) $20.50; (d) $9.20; (e) $8.60; Lyons Bros., Washington, (a) $1.76; (b) $18; (c) $23; (d) $10; (e) $10.50. Sullivan Bros., Arcade Bldg., Philadelphia, Pa., (a) $1.34; (b) $12.29; (c) $19.71; (d) $7.28; (e) $6.77. Charles Knott, Washington, D. C., (a) 80 cts.; (b) $16; (c) $20; (d) $9; (e) $8.50 (lowest bidder on total). L. R. Colbert, Massoponax, Va., (a) $1.20; (b) $19; (c) $22; (d) $12; (e) $11. E. G. Gummel, Eckington, D. C., (a) 82 cts.; (b) $16; (c) $22; (d) $8.50; (e) $8.

NORFOLK, VA.—The Jamestown Boulevard Commission is reported to have decided to ask for bids for the construction of sewers along the route of the boulevard within the city. H. B. Goodridge is Chn., 190 Water St., Norfolk.

DAWSON, GA.—BENNER & MACKEY, Marion, Ind., it is reported, have contract to construct sewer system.

APALACHICOLA, FLA.—We are officially advised that on Nov. 10, Arthur Pew, Consult. Engr., 619 Temple Court, Atlanta, Ga., let the contract for constructing 9,000 ft. of sewers at Apalachicola, Fla., to BRYAN & CO., of Jacksonville, Fla., for $8,828.

CROWLEY, LA.—I. M. SYLVESTER, of Alexandria, has secured the contract for the installation of a sewerage system in this city.

WINCHESTER, KY.—The City will lay from six to eight miles of sewer pipe, with a septic disposal plant, but no arrangement for the construction of plant will be made before the spring or summer of 1907. A $40,000 bond issue have been voted for this purpose.

LOUISVILLE, KY.—Bids are asked by the Board of Public Works until noon, Dec. 18, for constructing the following sewers: 200 ft. of 18-in. pipe sewer in Eighth St., between Oak and Oldham Sts., and 1,100 ft. of 27-in. pipe sewer in Tenth and Oak Sts. Estimated cost, $5,600. J. P. Claybrook is City Engr.

CINCINNATI, OHIO.—Bids are asked until noon, Dec. 19, by the Board of Public Service for constructing sewers in Observatory, Mooney, Menlo and Fisher Aves. Estimated cost, $32,509. There will be 552 ft. of 2¼-ft., 1,318 ft. of 2½-ft. brick sewers, and 5,835 ft. of 15 to 24-in. pipe sewers. M. J. Keefe is Clk., and C. N. Danenhower is Ch. Engr. Bd. Pub Wks.

DAYTON, OHIO.—Frederick Kroemer, who was the successful bidder for constructing the sewage station at the foot of Longworth St., has awarded contract with the approval of the City Engineer, for the pumping machinery equipment to the DAYTON HYDRAULIC MACHINERY CO. The other bidders were: The Platt Iron Works, the Lawrence Machine Co. and Henry Worthington, of New York. The pumping plant consists of three independent units, each capable of handling 4,200 gallons of sewage per minute, and are directly connected to 50-HP. Westinghouse vertical motors.

EVANSVILLE, IND.—Plans have been completed by the County Surveyor for constructing a sewer in Kentucky Ave. Cost, $300,000.

MONTPELIER, IND.—Bids are asked until 8 p. m., Dec. 12, by the Common Council, for construction of vitrified pipe sewer. W. B. Redding is City Clk.

INDIANAPOLIS, IND.—Henry Magg was the lowest bidder for constructing the North Indianapolis sewer system. His bid was $5.18 and $5.51.

MUSKEGON, MICH.—Plans for a combined sewer system have been prepared by J. H. Blomshield, Consult. Engr., of Bay City, Mich. Estimated cost, $46,000.

WOODSTOCK, ILL.—Woodstock will install a sewerage system in the near future at a cost of about $80,000, the Board of Local Improvements having submitted an estimate at about that figure.

MARINETTE, WIS.—Engineers are completing the survey for the new drainage canal in Marinette County, which will be built next summer.

RACINE, WIS.—The Board of Public Works has been instructed to secure estimates for sewers in certain streets.

ST. PAUL, MINN.—The Board of Public Works has awarded contract for constructing the South St. sewer system to KEOUGH BROS., Hamline and Otto Sts., this city, at $85,000. The engineer's estimate on the cost of the work was $81,228. The sewer system will cover 62 blocks, running on South St. from Sylvan to Gaultier, on Carbon from Rice to Western, on Maryland from Rice to Western, on Rice from Maryland to South, on Albemarle from Rose to Carbon, on Woodbridge from Geranium to South, on Marion from Geranium to South, on Gaultier from Geranium to South, on Matilda from Cook to South, on Farrington from Cook to South, and on Hand from Cook to South Sts.

L. E. Rundlett, City Engr., is stated to have submitted to the Board of Public Works his report on the extension of St. Anthony Park sewer system. He estimates the cost at $183,400. If the sewers north of University Ave. are omitted the cost can be reduced to $84,000.

FAIRBURY, NEB.—Bids are asked by F. L. Rain, City Clerk, until 6 p. m., Dec. 8, for the construction of a sewer lateral in Sewer Districts Nos. 4 and 5. Estimated cost is $3,600.

ROLLA, MO.—Bids are asked until Jan. 7, 1907, for constructing sewers, for which a bond issue of $10,000 was recently voted. W. J. Pierce is City Clk.; McRae & Harris are Engrs.

INDEPENDENCE, MO.—It is reported that the City will construct a vitrified pipe sewer at a cost of $15,000. J. A. Prewitt is City Clk.; R. T. Proctor is City Engr.

FAYETTEVILLE, ARK.—We are officially advised that an improvement district has been formed to pave The Square, a portion of Center, East, Mountain and Dickson Sts., about four miles in all. The paving material to be vitrified brick.

DURANGO, COLO.—We are officially informed that ordinances have been passed by th City Council for constructing various sewers in this city. J. H. Eby is Engr., Durango.

VISALIA, CAL.—The Board of Trustees has adopted plans prepared by Morve L. Weaver, City Engr., for repairing a portion of the present sewer system and constructing a new outfall sewer, and has called an election to vote $35,000 bonds to build same. The plans call for about 6,300 ft. of 16, 18 and 20-in. sewer.

LOS ANGELES, CAL.—Regarding the bids received for constructing Section 3, Outfall Sewer, the Los Angeles Express, of Nov. 24, states: "All bids for the completion of the tunnel section of the outfall sewer have been rejected by the Board of Public Works, and it has been decided to let the City Engineer, Homer Hamlin, attempt the engineering feat that has been given up as impossible by two contractors. Mr. Hamlin will begin work Monday under the direction of the Board and will proceed as if he were a private contractor. To complete the section under this plan will cost the city $287,000, according to Mr. Hamlin's estimate. To have accepted the lowest bid would have cost at least $305,000. The bids which were received by the Board were: E. R. Fox, $265,000; E. C. Alsop, $294,450, and Atlantic Gulf & Pacific Co., $333,000. In addition to the contract price the contractors were to have been paid an allowance for the lumber left in the sewer. With the estimated cost of the lumber added the bids stood $305,705, $311,411 and $349,981. With Mr. Hamlin as the acting contractor the City will save $18,705.

SAN FRANCISCO, CAL.—We are officially advised that the Board of Public Works has requested the Board of Supervisors to set aside $48,000 for construction of a sewer in 14th St. between Howard and Harrison Sts., together with sewers in adjacent streets; also, $115,000 for construction of a sewer in 18th St. between Church and Division Sts.; also, $5,800 for construction of a sewer in Ninth St. between Bryant and Brannan Sts. Thomas P. Woodward is City Engr.

SAN JOSE, CAL.—We are officially advised that contracts probably will be let for constructing pipe sewers in portions of the Third and Second Wards to CHARLES WEHNER, 694 Spencer Ave., San Jose, and to JOHN McREYNOLDS, 243 North 13th St., San Jose, at $22,000 and $27,597, respectively. The estimate for sewers in Third Ward was $22,750, and for sewers in Second Ward, $28,000. The city will furnish all cement. Bids were received Nov. 26. Charles H. Pieper is City Engr.; Roy E. Walton is City Clk.

BISBEE, ARIZ.—We are officially advised that the Warren Realty & Development Co. intends to construct sewer system, sewage disposal plant and water-works at Warren, Ariz. Estimated cost, $100,000. A. R. Applegrath, C. E., is Ch. Engr., Brisbee.

FORT FRANCIS, ONT.—The Town has decided to build a septic tank. Plans are now being prepared.

EDMONTON, ALTA.—See under Manufacturing Plants.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Dec. 18, by Louis F. Haffen, Pres. Boro. of the Bronx, for regulating, grading, setting curbstones, flagging the sidewalks, laying crosswalks, building approaches and placing fences in Creston Ave., from Tremont to Burnside Ave.; also in Marcy Pl., from the Grand Boulevard and Concourse to Jerome Ave.

Two assessment lists, involving the collection of about $800,000, have been submitted to the Bureau for the Collection of Arrears and Assessments of the Finance Department by the Bureau of Street Openings, and a third, upon which more than $550,000 will be collected, will be ready for transmission to the Finance Department within a short time. The two already sent from the Street Opening Bureau are for the widening of East 149th St. from the Harlem River to Austin Pl., and for the widening of Bathgate Ave. between Wendover Ave. and 188th St. The other work involved is the Grand Boulevard and Concourse.

BUFFALO, N. Y.—The following bids have been received by Francis G. Ward, Comr. of Pub. Wks., with regard to the paving of various streets: For paving Lord St. between Seneca and Howard Sts., German Rock Asphalt Co., D. S. Morgan Bldg., bid lowest at $18,128. For paving Rey St. from Mortimer to the east end of Rey St., the above company was low at $2,683. For paving Dempster Ave. between Bailey and Green Sts., the Barber Asphalt Paving Co., 882 Ellicott Sq., was low at $10,206. For paving Poplar Ave. between Wallace and Doat Sts. the H. P. Burgard Co. was low bidder at $12,000.

AMITYVILLE, N. Y.—Bids are asked until Jan. 7, 1907, by the Board of Trustees, for macadamizing and otherwise improving Broadway and Park Ave. (Advertised, Engineering News.)

NEWBURGH, N. Y.—Bids are asked until noon, Jan. 7, 1907, by D. J. Coutant, City Clk. for paving a portion of Lander and North Water Sts., and Leroy Pl. Everett Garrison is City Engr. (Advertised, Engineering News.)

ALBANY, N. Y.—Bids are asked by Henry A. Van Alstyne, State Engr. and Surv., until noon, Dec. 15, for improvement of following State highways in the County of Cortland: Cortland-Homer Road No. 208, length ½ mile, and the State Road-Scott No. 381, length 2¾ miles.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Dec. 19, by Bird S. Coler, Pres. Boro. of Brooklyn, for erecting an asphalt plant; also for furnishing broken trap rock; also for regulating and grading and laying sidewalks in certain parts of Borough of Brooklyn.

NEW BRUNSWICK, N. J.—On. Nov. 21 the Board of Freeholders is reported to have awarded the contract for constructing Cheesequake Road, about two miles in length, over the Cheesequake Flats, to GEO. M. BRYAN, of Red Bank, at $26,920.

HARRISBURG, PA.—Bids for 93,483 sq. yds. of street paving, not including paving between and on each side of street railway tracks, in all about 120,000 sq. yds., the last of the street paving authorized under the ordinances of 1902 and 1905, with the exception of several small streets, were opened Nov. 26. The bids were as follows: (a) name of street; (b) area in sq. yds.; (c) curbing in lin. ft.; (d) bid of the Barber Asphalt Paving Co., 114 Liberty St., New York; (e) bid of Warner-Quinlan Asphalt Co., 42 Broadway, New York; (d and e are for asphalt paving); (f) Stucker bids for brick pavement. (a) York, (b) 1,050, (c) 1,500, (d) $1.79, (e) $1.69; (a) Duck (alley), (b) 144, (d) $1.89, (e) $1.99; (a) Kunkel, (b) 640, (c) 960, (d) $1.79, (e) $1.69; (a) Snipe (alley), (b) 455, (d) $1.89, (e) $1.99; (a) Calder, (b) 6,800, (c) 3,600, (d) $1.74, (e) $1.63; (a) Calder, (b) 1,200, (c) 670, (d) $1.77, (e) $1.63; (a) Basin, (b) 800, (c) 1,200, (d) $1.79, (e) $1.69; (a) Linden (alley), (b) 530, (d) $1.89, (e) $1.99; (a) Plum (alley), (b) 200, (c) 460, (d) $1.84, (e) $1.69; (a) Fulton, (b) 1,800, (c) 1,750, (d) $1.74, (e) $1.67, (f) $1.95; (a) West (alley), (b) 200, (c) 440, (d) $1.84, (e) $1.69, (f) $1.95; (a) Wyeth, (b) 960, (c) 1,380, (d) $1.79, (e) $1.69, (f) $1.95; (a) East, (b) 1,150, (c) 920, (d) $1.77, (e) $1.64, (f) $1.95; (a) Sarah (alley), (b) 750, (c) 1,100, (d) $1.79, (e) $1.69, (f) $1.95; (a) Ash, (b) 900, (c) 1,350, (d) $1.79, (e) $1.69, (f) $1.95; (a) Grape, (b) 370, (c) 540, (d) $1.84, (e) $1.69; (a) Apple, (b) 420, (c) 620, (d) $1.84, (e) $1.69; (a) Cowden, (b) 3,100, (c) 2,400, (d) $1.74, (e) $1.63; (a) Wallace, (b) 1,800, (c) 1,160, (d) $1.78, (e) $1.67; (a) Hazle (alley), (b) 270, (c) 400, (d) $1.84, (e) $1.69; (a) 14th, (b) 6,900, (c) 4,470, (d) $1.74, (e) $1.66; (a) 15th, (b) 3,400, (c) 2,300, (d) $1.74, (e) $1.66; (a) 17th, (b) 2,450, (c) 1,200, (d) $1.74, (e) $1.69; (a) William, (b) 1,400, (c) 1,270; (d) $1.78, (e) $1.69; (a) Marion, (b) 1,400, (c) 1,270, (d) $1.74, (e) $1.67, (f) $1.95; (a) Fourth, (b) 900, (c) 1,270, (d) $1.89, (e) $1.66; (a) James, (b) 1,400, (c) 1,270, (d) $1.79, (e) $1.67; (a) 16th, (b) 2,000, (c) 1,800, (d) $1.74, (e) $1.67; (a) Berryhill, (b) 7,100, (c) 4,300, (d) $1.79, (e) $1.63; (a) Cameron, (b) 38,000, (c) 21,000, (d) $1.79, (e) $1.79, (f) $1.95; (a) 14th, (b) 1,800, (c) 1,130, (d) $1.77, (e) $1.67, (f) $1.95; (a) Hoerner, (b) 1,200, (c) 900, (d) $1.77, (e) $1.63; (a) Kirby (alley), (b) 110, (d) $1.89, (e) $1.99; (a) 10-ft. alley, (b) 140, (d) $1.89, (e) $1.99; (a) 10-ft. alley, (b) 102, (d) $1.89, (e) $1.99; (a) 10-ft. alley, (b) 102, (d) $1.89, (e) $1.99; (a) River, (b) 1,150, (c) 1,650, (d) $1.79, (e) $1.99, (f) $1.95.

The following bids were received for curbing: (a) material, (b) bid of Barber Asphalt Paving Co., (c) bid of Warner-Quinlan Asphalt Co., (d) bid of Stucker: (a) granite, (b) 73 cts., (c) 73 cts., (d) 96 cts; (a) steel-bound granolithic, (b) 55 cts., (c) 48 cts; (a) granolithic, (b) 38 cts., (c) 30 cts.; (a) resetting, (b) 20 cts, (c) 20 cts.

PHILADELPHIA, PA.—Bids are asked by John R. Hathaway, Dir. Dept. Pub. Wks., until noon, Dec. 12, for constructing asphalt and granolithic walks for the Bureau of Water.

It is reported that the Council's Highway Commission on Nov. 19 approved the order providing for appropriation of $2,115,306 for Department of Public Works for 1907. Among items provided for in the loan are the following: Paving street intersections, $200,000; grading streets, road and sidewalks, $250,000; repaving with improved pavements, $500,000.

CLAYSVILLE, PA.—N. C. HUNTER, of Brookville, has secured the contract for constructing about 5,100 ft. of State road in East Finley Township, at $14,431.

WAYNESBORO, Pa.—D. S. THOMPSON has been awarded contract by the Street Committee for grading and macadamizing Harrison St.

SHARPSBURG, MD.—Bids are asked by Maj. M. Gray Zalinski, Q. M., U. S. Army, Washington, D. C., until 11 a. m., Dec. 29, for resurfacing the roadways on the Antietam Battlefield.

THOMASVILLE, GA.—Bids are asked until 6 p. m., Dec. 19, by the Board of Aldermen, for paving, laying curbs and sidewalks. H. S. Jaudon is Engr.; J. F. Pittman is Mayor; K. T. Maclean is Clk.

CHATTANOOGA, TENN.—It is reported that the paving of Rossville Ave. with vitrified brick is being considered. Approximate estimated cost, $28,342. Robert Hooke is City Engr.

LOUISVILLE, KY.—Bids are asked by the Board of Public Works, until noon, Dec. 18, for paving 13 blocks of sidewalks with granitoid pavement. The work includes 1,647 cu. yds. of excavation and 5,271 sq. yds. granitoid pavement. Estimated cost, $9,300. J. P. Claybrook is City Engr.

CLEVELAND, OHIO.—Resolutions providing for paving the following streets with brick are reported to have been passed by City Council: East 99th, East 48th, Cowan Ave. and Deroy Road, also with macadam, Glenwood Ave.

GLENDALE, OHIO.—It is reported that the City Council has passed a resolution providing for paving with macadam a portion of Grand Ave.

CINCINNATI, OHIO.—Bids are asked until noon, Dec. 12, by the Board of Public Service, for grading, setting curb and paving with brick Seminole St. Estimated cost, $4,537.

Bids are asked until noon, Dec. 19, for grading and constructing stone road on Stanley Ave. Estimated cost, $28,843.

Bids are asked until noon, Dec. 24, for grading, setting curb, etc., on Euclid Ave., at an estimated cost of $6,722.

Bids are asked until noon, Dec. 26, for constructing roadway on Fifth Ave. The following work is included: Broken stone, 1,550 sq. yds.; cement curb and gutter, 3,030 lin. ft.; grading, 15,500 cu. yds. Estimated cost, $12,642. M. J. Keefe is Clk., and C. N. Dannenhower is Ch. Engr., Bd. Pub. Service.

PETERSBURG, IND.—Bids are asked by the Commissioners of Pike County, until 3 p. m., Dec. 11, for construction of the following roads in Madison Township: Road No. 1, about 3¼ miles in length, and Road No. 2, about three miles in length. T. W. Masinger is County Audr.

INDIANAPOLIS, IND.—Bids are asked by the Board of Public Works for bitu-mineral roadway in 14th St., from College to Cornel Aves., and for a brick roadway in first alley east of New Jersey St. from 20th to 23d Sts.

TERRE HAUTE, IND.—It is reported that the County Commissioners on Nov. 17 opened bids for paving Macksville grade: Meredith Construction Co., $31,990; Roberts & Co., $29,890; W. C. Dorsey, $30,350; Foulkes & Forbes Co., $32,775, and W. H. Harris, $30,400.

RICHLAND, MICH.—It has been decided by the town of Richland to pave all its streets during the coming season.

STERLING, ILL.—The bids for the paving of Locust St. from Eighth to Eleventh Sts., and West Third St. from Ave. C to Ave. G were opened Nov. 27, and the contract was let by the Board of Local Improvements to ROURKE & RIDGE, of this city. The total amount of the contract was $14,600.

DES MOINES, IOWA.—The BARBER ASPHALT PAVING CO. has secured the contract for laying about 3,520 sq. yds. of asphalt paving with concrete foundation on West Fifth St.

PULASKI HEIGHTS, (Little Rock post-office), ARK.—Arrangements are being made for building 1½ miles of macadam streets

and laying about three miles of concrete sidewalks, curbs and gutters. Estimated cost, $20,000. E. A. Kingsley is Supt. Pub. Wks., Little Rock.

HOUSTON, TEX.—The city is completing arrangements for the paving of 50 blocks of street in the Third and Fourth Wards with gravel.

SEATTLE, WASH.—Resolutions have been passed for the paving of the following streets: Eleventh Ave. and other streets, 23,200 sq. yds. sandstone block paving, 10,200 sq. yds. asphalt paving. Estimated cost, $115,000. Fourth Ave., South, 1,750 sq. yds. sandstone block paving. Estimated cost, $8,900. East Jefferson and other streets, 72,300 sq. yds. asphalt paving, 8,120 sq. yds. sandstone block paving. Estimated cost, $249,700. This work probably will be ready for bidding some time in the early spring, so that the work may be completed next summer. R. H. Thomson is City Engr.

CORVALLIS, ORE.—Bids are asked until 6 p. m., Dec. 10, by the Committee on Streets and Public Buildings, for improving 14th, Center, Depot, Oak, Adams, Tenth and Van Buren Sts.

SEAFORTH, ONT.—It is reported that asphalt pavements will be laid on Main St., to cost $26,500.

COLLINGWOOD, ONT.—The main street of this town is to be paved with cement brick, and the cement walks are now being extended to 24 ft. on each side.

WINNIPEG, MAN.—The City Council has decided to place asphalt pavement on Main St., from Graham Ave. to the Canadian Pacific Ry. Co.'s depot, at an estimated cost of about $300,000. H. N. Ruttan is City Engr.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

CLINTON, MASS.—The Biglow Carpet Co. will enlarge its spinning plant; a weaving mill will also be erected.

FALL RIVER, MASS.—It is reported that M. C. D. Borden, owner of the Fall River Iron Works Mills, will soon erect another mill. W. T. Henry is Arch.

BRISTOL, CONN.—The H. C. Thompson Clock Co. will soon begin work on the erection of a 2-story factory, to replace the one recently destroyed by fire. It is to be of brick, 25 × 100 ft.

MERIDEN, CONN.—Plans are being prepared for a 1-story brick addition, 52 × 80 ft., to the plant of the New England Braid Co. It is to be erected on State St.

CLINTON, N. Y.—A knitting mill company has been formed here, with a capital of $30,000. H. W. Roberts is Pres. A mill will be equipped at the old milk station on the Baltimore & Ohio R. R. The latest equipment will be installed.

LONG ISLAND CITY, N. Y.—Plans have been posted by the William Steel & Sons Co. for a 4-story brick factory building, which is to be erected for the Long Island City Factory Co. One building is to be 200 × 40 ft., and the other 200 × 50 ft. The buildings are to be erected on the block bounded by Tenth and Eleventh Sts., Vernon and East Aves. Estimated cost, $100,000.

SILVER SPRINGS, N. Y.—We are officially advised that the Worcester Salt Co., 168 Duane St., New York City, is considering the construction of an overhead coal bin in its boiler-house, with car tracks above, so that the cars may be dumped directly into the bins here. Blue-print sketches are on file at office of Engineering News, New York City. W. B. Powell is Mgr.

EDDYSTONE, PA.—THOMAS M. SEEDS, 1207 Race St., Philadelphia, Pa., has been awarded the contract for the erection of a 1-story, brick and steel factory, 70 × 240 ft., for the Pennsylvania Iron Works, of Philadelphia. The building will be used as a factory for the manufacture of gas and gasoline engines.

EMAUS, PA.—Plans are being prepared by A. W. Leh, Arch., 203 West Fourth St., South Bethlehem, Pa., for a silk mill, to be erected here for D. G. Dery, of Catasauqua, Pa. It is to be a 2-story brick building and will have a capacity of 150 looms. Power equipment and special machinery will be required.

PHILADELPHIA, PA.—WILLIAM STEEL & SONS, 1600 Arch St., have been awarded the contract for two additions, four and five stories high, to the factory at Adams and Boston Sts., for Joseph F. Pearson. The buildings are to be of brick, concrete and steel, and will cost $100,000.

PHILADELPHIA, PA.—The contract for the erection of a carriage factory at 26th and Parrish Sts. for Finnessey & Kohler has been awarded to SMITH-HARDICAN & CO., Perry Bldg. It is to be a 3-story, reinforced-concrete building, 90 × 100 ft. Power equipment and special machinery will be required.

YORK, PA.—Bids are asked by the Standard Stone Co. for the erection of a 1-story, brick addition to its plant. It is to be 75 × 300 ft. Estimated cost, $30,000. Power equipment and special machinery will be required.

PHILADELPHIA, PA.—Ballinger & Perrott, Archs. and Engrs., have completed drawings and specifications and invited bids for additions to the shipping and office departments of the Fern Rock Woolen Mills, at Amber and Wishart Sts. The shipping department will be 23 × 25 ft., one story high, with brick walls.

YOUNGSTOWN, PA.—The blooming mill of the Carnegie Steel Co. is to be remodeled. A year ago the Steel Corporation appropriated $100,000 for this work, but on account of the rush of rail orders the improvements were not made.

GAFFNEY, S. C.—The Victor Cotton Oil Co. will erect a 20-ton ice plant. Estimated cost, $20,000.

FREEMAN, VA.—A sawmill will be erected by J. S. Newell, of Freeman, the mill building to be 69 × 163 ft. The plant will have a daily capacity of 100,000 feet and will cost $100,000.

WINSTON-SALEM, N. C.—Work on the new mill of the Chatham Mfg. Co. will be commenced soon. It is to be the largest woolen mill in the South.

WOODRUFF, S. C.—W. S. Gray, of this city, has organized a stock company with a capital of $200,000, to erect a cotton mill here.

WINNFIELD, LA.—The Winnfield Ice Co. will erect an ice plant and bottling works here. A building 50 × 125 ft. will be erected and the plant is to have a capacity of 30 tons. John Lockwood is Pres.; R. H. Fletcher, Vice-Pres., and John Wilder is Secy.-Treas.

CHATTANOOGA, TENN.—The capital stock of the Chattanooga Wheelbarrow & Mfg. Co. has been increased from $25,000 to $50,000, and extensive improvements will be made to its plant.

MEMPHIS, TENN.—The Chickasaw Iron Works, of which John E. Randle is the principal stockholder, has purchased a 5-acre site on the Belt Railway and will erect a branch plant in North Memphis at an expenditure of about $40,000. According to the architect's plans, three iron buildings, 150 × 50 ft., will be erected. They will consist of foundry and structural shops in which pattern work and steel molding will be done. A power-house will also be erected to supply the plant with motive power.

Contract has been let to OLSON & LEECH, of Memphis and Chicago, Ill., for the erection of building for J. N. Oliver, to be equipped as cold-storage plant and operated by the Memphis Cold Storage Warehouse Co. The building will be 64 × 130 ft., twelve stories high, constructed of hard red brick and designed to have a capacity of 700,000 feet cold storage; total cost of building, land and equipment, $300,000. It will be used as a public cold-storage plant. Alsup & Woods, Archs., Memphis, Tenn., prepared the plans for the building; Westerlin & Campbell, of Chicago, Ill., cold-storage Engrs.

ASHLAND, KY.—The Crystal Ice & Cold Storage Co. will erect an ice plant at a cost of $35,000. A building, 84 × 87 ft., will be erected. J. R. Geiske, Ceredo, W. Va., is Arch.

TOLEDO, OHIO.—The Craig Motor Co. has been incorporated, with a capital of $100,000, for the purpose of erecting a plant for the manufacture of automobiles. J. G. Swinderman is interested.

INDIANAPOLIS, IND.—Piel Bros. will erect a starch factory here, at a cost of $50,000.

KOKOMO, IND.—Bids are asked by the National Mitten Works until Feb. 1, 1907, for the erection of a 2-story, brick and iron glove factory, to be erected here. It is to be 66 × 80 ft. Alternating-current motors, steam-heating plant and freight elevator will be installed. Joseph Coppage is Arch.

BENTON HARBOR, MICH.—The Benton Harbor Development Co. has just decided to spend its last $10,000 to locate a large malleable-iron foundry, to employ 300 men. The Development Company has also decided to contract five acres of land just west of the Covell Mfg. Co.'s foundry, which is now nearly completed. G. S. Burtis, of Chicago, is the head of the new foundry.

DETROIT, MICH.—The Detroit Spring Wheel Co. has been incorporated, with a capital of $100,000, and will erect a factory for the manufacture of a newly-patented wheel for automobiles. W. T. McGraw, 1477 Grand River Ave., is interested.

Plans are being prepared by A. C. Varney & Co., Archs., 59-61 Newberry Bldg., for a factory and office building for the Detroit Woodoleum Co. It is to be 94 × 80 ft., of brick and composition roof.

PORT HURON, MICH.—The Northern Automobile Co., of Detroit, has arranged to build a large factory here. W. T. Barbour, 1330-1360 Jefferson Ave., Detroit, is interested.

CHICAGO, ILL.—Nimmons & Fellows, Archs., 204 Dearborn St., have completed plans for an 8-story manufacturing building, 65 × 170 ft., for the Republic Metalware Co., to be erected on Wabash Ave., near 16th St.

QUINCY, ILL.—An addition is to be erected to the Egg-O-See plant, at an estimated cost of $30,000.

ROCKFORD, ILL.—A 3-story addition, 146 × 40 ft., is to be erected by the Barber-Colman Co. to its factory on River St., in South Rockford.

STERLING, ILL.—An addition which is to be four stories high, 120 × 40 ft., is to be erected to the plant of the Sterling Mfg. Co.

MILWAUKEE, WIS.—John Roth, Jr., Arch., has prepared plans for a $12,000 addition to the plant of George Grade Bros., carriage manufacturers, 250 Reed St. Building is to be of brick and stone, three stories high, 40 × 160 ft.

DES MOINES, IOWA.—Bids will be received sometime before March, 1907, by the C. E. Eastmah Co., Archs., for the erection of a 4-story, brick factory building, 66 × 280 ft., to cost $50,000, to be erected for the Des Moines Casket Co.

CROOKSTON, MINN.—The Crookston Lumber Co. will expend about $25,000 on improvements to its plant.

MINNEAPOLIS, MINN.—John T. Barnum will erect a 4-story, brick factory building, 60 × 135 ft., at Linden and Aldrich Aves.

ST. PAUL, MINN.—E. C. Haley, Arch., Northwestern Bldg., Minneapolis, has plans for a 2-story furniture factory building, 80 × 100 ft., of mill construction, which is to be erected by John Luger on North St.

The Twin City Rapid Transit Co. will expend $1,000,000 in the erection of shops.

SHOREHAM, MINN.—The Minneapolis, St. Paul & Sault Ste. Marie Railway Co. will erect a new boiler shop, 118 × 206 ft. Also a round-house, to cost about $70,000. Thomas Green, Minneapolis, Minn., is Ch. Engr.

EAST ST. LOUIS, ILL.—The General Roofing Co. will erect a paper mill at 17th St. and Walnut Ave., in this city.

DEWEY, IND. T.—The BARTLETT STEEL CO., Joplin, Mo., has been awarded the contract for the fabrication and erection of all the steel buildings required in the new $1,000,000 cement plant of the Dewey Portland Cement Co., at Dewey, which is now being constructed by Tyler & Co., of Junction City, Kan. This work will commence in less than 90 days and it is expected that completion of this work will be made in the early part of May. This construction involves about 500 tons of structural material.

PINE BLUFF, ARK.—It is reported that E. Hilliard, of Milwaukee, Wis., will erect a German-cement plant here.

BELLINGHAM, WASH.—The Dingee-Croker-Bachman Syndicate will erect a cement plant here, at a cost of $1,000,000.

SEATTLE, WASH.—The Washington Wire Works Co. will erect a factory and foundry at 4525 Sixth Ave., South, at a cost of $7,000.

TACOMA, WASH.—The Pacific Pail & Package Co. will erect a woodenware factory on the tide flats across the bay from here.

NORTH BEND, ORE.—Charles Tom and Max Weiss, of Roseburg, Ore., have secured a site here and will erect a brewery, at a cost of $100,000.

NAMPA, IDAHO.—The entire plant of the Nampa Foundry & Machinery Co., including all tools and patterns, has been destroyed by fire. Estimated loss, $35,000; insurance, $8,000.

SYDNEY, N. S.—The Council has granted a syndicate of local capitalists a bonus of $50,000, on condition that the company spends $400,000 in construction work on a plant to manufacture railroad construction materials.

MONTREAL, QUE.—The Ames-Holden Co. has purchased a site for a new $200,000 boot and shoe factory, of reinforced concrete and steel, absolutely fireproof.

BELLEVILLE, ONT.—The Lehigh Portland Cement Co., Ltd., is about to erect a mill of not less than 2,500 bbls. a day capacity, or not less than 750,000 bbls. annual capacity. The works will be located on Point Ann, about four miles east of here. A. W. Thorne is in charge of the Toronto office of the company.

FORT WILLIAM, ONT.—The Fort William Brewing Co. has received certain concessions from the town and will at once commence the construction of a $75,000 brewery plant, with a capacity of 75 barrels per day.

GUELPH, ONT.—The Michigan Ammonia Works are to establish a plant at Guelph, Ont.

PETERBORO, ONT.—A branch of the Crossley Carpet Co., largest carpet concern in the world, has practically decided to locate works here. The works are expected to employ between 500 and 600 hands. Senator Cox, of Toronto, has influenced this decision.

PORT ARTHUR, ONT.—Herbert Matthews, Arch., Merchants' Bank Bldg., is about to call for bids for the Meisell Mfg. Co.'s plant, to be erected here. Estimated cost, $100,000.

EDMONTON, ALTA.—The Edmonton Brewing Co. has received concessions and a bonus from the town and will commence work this winter on a brewery building and plant, to cost $250,000.

A. O. Dwyer, formerly of Cleveland, Ohio, has agreed to spend $500,000 here on the erecting of a pork-packing plant, providing the Council will give free water and free taxation for ten years. In connection with the plant a $10,000 sewer will be built.

STRATHCONA, ALTA.—C. L. Bailey, Coburgh, Ont., is negotiating with the Council here and will erect immense soap works, construction on which will be started this winter.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

FIRE HOSE.—New York, N. Y.—Bids are asked by Francis J. Lantry, Fire Comr., until Dec. 11, 10.30 a. m., for furnishing and delivering 3,000 ft. of 3-in. rubber fire hose.

ROCK TUNNEL.—Harrisburg, Pa.—JOHN MONKS & SONS, 82 Beaver St., New York, have been awarded contract for 1,000 ft. rock tunnel here. Mason D. Platt, Harrisburg, is Engr. Noted on Nov. 22.

CLAM-SHELL DREDGE.—Wilmington, Del.—Bids are asked until noon, Dec. 28, by Maj. Joseph E. Kuhn, U. S. Engrs., for furnishing or building one clam-shell dredge. (Advertised, Engineering News.)

PIERS.—Ottawa, Ont.—Bids are asked by Fred. Gelinas, Secy. Dept. Public Works, Ottawa, until noon, Dec. 17, for construction of a landing pier at Coleraine, Lake St. Francis: and at Lambton, Que.

REMOVING LEDGE.—Portsmouth, N. H.—Bids are asked until 11 a. m., Jan. 5, for removing a ledge in front of quay wall at the Navy Yard here. Mordecai T. Endicott, Ch. Bureau of Yards and Docks, Navy Dept.

DREDGING.—New York, N. Y.—Bids are asked until noon, Jan. 8, by Lieut.-Col. W. L. Marshall, U. S. Engrs., Army Bldg., for dredging in Ambrose Channel, N. Y. Harbor. (Advertised, Engineering News.)

REINFORCED CONCRETE.—Trinidad, Colo.—THE STANDARD CONSTRUCTION CO., Pueblo, Colo., has been awarded the contract for about 10,000 cu. yds. reinforced concrete near Trinidad, Colo., for the A. S. & R. Co.'s new coke ovens.

WHARF.—Key West, [illegible] until 3 p. m., Jan. 17, [illegible] Const. Engr., Florida East [illegible] Fla., for the construction [illegible] of a concrete quay wall, [illegible] vertised, Engineering New[illegible]

GRADING.—Michigan C[illegible] wanted by the South Ben[illegible] Room 511, Dean Bldg., So[illegible] miles grading work west [illegible] about 80,000 cu. yds.; also [illegible] Michigan City, about 10,0[illegible]

LIGHT-VESSEL.—Washin[illegible] Light House Board, Dept. [illegible] Labor, Washington, has [illegible] NEW YORK SHIP BUILDI[illegible] for the construction of lig[illegible] for the Pacific Coast light-[illegible] its bid of $99,000. Bids were [illegible]

DITCHES.—Prophetstown, [illegible] asked until Dec. 8 by the C[illegible] the Union Special Drainage [illegible] and Whiteside Counties, at [illegible] W. Sears, Engr., Prophetsto[illegible] largement of the lateral ditche[illegible] in this drainage district, req[illegible] moval of 139,380 cu. yds. mat[illegible]

CEMENT.—Garden City, Kan[illegible] tary of the Interior has execu[illegible] on behalf of the United States [illegible] the bond of the KANSAS POR[illegible] MENT CO., of Iola, Kan., [illegible] 5,000 bbls. of Portland cemen[illegible] den City irrigation project, [illegible] cement is to be furnished for $[illegible] f. o. b. cars at Iola.

DRAINAGE.—De Land, Ill.—B[illegible] by the Drainage Commissioner[illegible] Creek District, No. 1, De Land, [illegible] m., Dec. 22, for constructing [illegible] system, involving the use of [illegible] ft. of various-sized drain tile. [illegible] hart, Town Clk., De Land. [illegible] Engr.-in-Charge, Bement, Ill. [illegible] Engineering News.)

STEAM SHOVELS, LOCOMOTIVES.—Washington, D. C.—J. F. Do[illegible]oo, Bond Bldg., Washington, is in the mar[illegible] for several 9 × 14 and 10 × 16 36-gage [illegible]ddle tank contractors' locomotives, Vulcan[illegible] preferred. He is also in the market for [illegible]wo Marion "Model 60" shovels, either new [illegible]or second-hand, as well as for one Bucyrus [illegible]5 or 70-ton shovel, new or second-hand.

COPPER, NICKEL.—Philadelphia, Pa.—Bids are asked by John H. Land[illegible], Supt. of the U. S. Mint, until noon, Dec. 8, for supplying 270,000 lbs. avoidupois, of ingot copper, the quality, highest grade electrolytic, the ingots to be cast with a "low bridge" 10 to 12 lbs. each in weight. Also 90,000 lbs. avoirdupois, screened shot nickel, subject to mint assay, suitable for minor coinage.

GRANDSTAND.—Columbus, O.—Bids are asked until Dec. 20 by the State Board of Agriculture for erecting a grandstand on the State fair grounds. Bids may be submitted as a whole or separately on the following: Excavating and reinforced concrete; structural steel; carpentry; slate and galvanized work. Linthwaite & Holbrook are Archs., Spring and High Sts. T. L. Calvert, Secy. State Board.

PIER.—Jersey City, N. J.—Contract for the general contract for the erection of a new freight pier for the Central R. R. of N. J., at the Communipaw terminal, has been awarded by Joseph O. Osgood, Ch. Engr., to W. H. JENKS, of 129 Pearl St., New York. The pier will be of all steel construction, will be fireproof, 900 ft. long and 58 ft. wide, with a bulkhead of 2,000 ft., and will cost about $200,000.

CANAL.—Alexandria, La.—Bids were received on Nov. 28 by the Red River, Atchapalaya and Bayou Boeuf Levee Board for extending drainage system from Bayou Jack, in Avoyelles Parish, 37 miles to Bayou Courtableau, in St. Landry Parish. J. R. Thornton, Secy., advises us that contract was awarded to the GULF DREDGING & TIMBER CO., Ltd., 204 Camp St., New Orleans, at about $150,000. The work consists of excavating and clearing a canal about 35 miles long.

RETAINING WALL.—Philadelphia, Pa.—Bureau of Yards and Docks, Navy Dept., Washington, has awarded to the AMERICAN PAVING & CONSTRUCTION CO., 211 S. Ninth St., Philadelphia, contract for the continuation of the retaining wall around the reserve basin, League Island Navy Yard, at $78,589. Company's price for additional wall beyond that called for in the specifications will be $490 for each additional five-foot length. Full list of bids received was given last week.

STEEL.—The Secretary of the Interior has awarded contract to the MIDLAND BRIDGE CO., of Kansas City, Mo., for furnishing steel and cast-iron for reinforcement and structural uses in connection with the Rio Grande irrigation project, N. Mex. The contract calls for 55,000 lbs. of steel bars for reinforcement of concrete, about 12,800 lbs. of structural steel and about 9,000 lbs. of cast-iron gates, guides, stands, etc., to be delivered within 60 days after award of contract. The bid was $2,885.

PARK, BRIDGE, SEWER, ETC.—Albany, N. Y.—The State Commissioners of the Land Office have issued letters patent to the City of Albany for the lands under the waters of the Albany basin. This is the first step in the $1,000,000 improvement to be undertaken by the city. The Albany basin is separated from the Hudson River by what is known as the State St. pier. About 100 ft. will be taken off the southern end of the pier, and the half of the basin nearest the pier will be filled in with solid filling. The pier thus enlarged will be improved and constructed into a park to be known as "Hudson Park." The sea walls on all sides will be of armored concrete and will be reinforced by counterforts spaced 12 ft. back of the wall, and will be four feet in width at the top. The top of the walls will be 13 feet above mean low water. At the corners the wall will be circular and will extend about three feet above the level of the surface of the pier, thus forming observation

platforms. Between the observatories at the southern end will be a broad concrete stairway leading from the surface of the water in case of the river a height of three feet to a platform, from each end of which a circular stairway will lead to the level of the pier. A stairway on the same plan will also be constructed at the foot of State St., to be used by small pleasure boats as a landing place. The northern end of the pier will be constructed somewhat differently in order to divert floes during the spring freshets. A bridge for the use of pedestrians only, to span what is left of the basin and to pass over the railroad tracks at this point, is also planned. At each end of the bridge there will be a gradual approach so that pedestrians will have no stairs to climb to reach the bridge. The park, when constructed, will be beautified with trees, shrubbery, grass and gravel walks, and the bridge will be lighted with ornamental electric lamps. Plans for this project are now being prepared. In connection with this improvement it is also being planned by the city authorities to construct a large intercepting sewer from the north bounds to the south bounds of the city, so that the sewerage of the city will be emptied into the Hudson River at a point below the city. Charles H. Gaus is Mayor; Walter E. Mellus is City Engr.

FOREIGN CONTRACTS.

(To insure prompt attention, letters upon consular business should be addressed to the American Consul at ——, ——. Such letters are opened and attended to by the person that may be in charge of the office. If addressed to the consul, personally, letters are forwarded to him, unopened, should he be absent, and a delay thus intervenes. If, in the meantime, he should have gone out of office the matter may wholly escape attention.)

SHIPBUILDING.—Spain.—The Government has sanctioned the expenditure of 5,000,000 pesetas (about $965,000) on the construction of a naval training ship of the most modern type, and of 3,100,000 pesetas (about $598,000) on the construction of three gunboats. The expenditure is to be distributed over the two years 1907-8.

RAILWAY.—Spain.—Bids are asked until Feb. 11, by the Ministerio de Fomento, Madrid, for the construction and working of a railway to connect Santiago de Compostela with the railway from Coruña to Lugo. A subvention of one-fourth of the estimated cost of construction is offered by the Government, provided the estimate does not exceed 60,000 pesetas (about $11,680) per kilometer. A deposit of 111,205 pesetas (about $21,250) is required to qualify any bid. Local representation is necessary.

TUNNEL.—New Zealand.—New alternative bids are asked until March 18, by the High Commissioner for New Zealand, 13 Victoria St., S. W., London, for constructing a tunnel about five miles 25 chains in length at Arthur's Pass, through the dividing range between Canterbury and Westland, on the route of the New Zealand Midland Ry. Plans and specifications may be seen at office of Virgil G. Bogue, Consult. Engr., 15 William St., New York, and at the offices of Engineering News, New York and Chicago. (Advertised, Engineering News.)

LAYING SUBMARINE CABLE.—Spain.—Bids will be received on Dec. 8 at the office of the Director-General of Posts and Telegraphs, Madrid, for laying a submarine cable between Barcelona and Palma (Majorca). Payment will be made by the Spanish Government in the form of a certain number of annual payments of 81,551 pesetas (about $15,750) each; if the amount of cable required is that estimated, viz:—156 miles, these payments will be made for not more than 13 years—in all 13 payments. If this estimate should prove incorrect payments will be made for a greater or lesser number of years according to the amount required. The work will be awarded to the bidder requiring the least number of annual payments, provided that the conditions of bidding are fully complied with.

WHARF.—South Africa.—The Consular Reports of the Department of Commerce and Labor state that "at the request of Consul Hollis, of Lourenço Marquez, Consular Agent A. W. H. Glenny, at Beira, South Africa, secured information concerning the proposed new wharf scheme for Beira. The officials are not yet ready to give out any information, but Mr. Glenny learns that the contractors are Pauling & Co. (Limited), of London, and that the cost is to be $1,250,000. The plan is for a concrete wharf similar to that at Lourenco Marquez, to accommodate three steamers for the discharge and landing cargoes, to be finished in two years. However, it is said that unless the Broken Hill mine in Rhodesia is capable of turning out copper to the extent that it is credited with the scheme will not go on."

UNIVERSITY AND OTHER BUILDINGS.—Bulgaria.—International competition is invited by the Bulgarian Government for plans for the construction at Sofia of the following buildings: (1) Law courts, at the cost of 2,000,000 fr. (about $400,000). Prizes of 5,000 fr. (about $1,000), 3,500 fr. (about $700), 2,000 fr. (about $400) and 1,000 fr. (about $200) will be awarded for the four best designs. (2) University buildings, at the cost of 3,000,000 fr. (about $600,000). Prizes of 10,000 fr. (about $2,000), 7,000 fr. (about $1,400), and 5,000 fr. (about $1,000) will be awarded for the three best designs. Plans of the sites of the proposed buildings and pamphlets (in French), containing full details of the conditions of competition, may be seen at the Commercial Intelligence Branch of the Board of Trade, 73 Basinghall St., E. C., London, England.

RAILWAY, ETC.—West Africa.—According to the West African Mail, Sir Walter Egerton, Governor of Southern Nigeria, has sent the following message to the Secretary of the Lagos Chamber of Commerce respecting the extension of the railway from Ilorin to Jebba on the Niger: "I have much pleasure in informing you that I have received a telegram from the Secretary of State saying that the locating survey of the railway from Ilorin to Jebba has been authorized to be taken in hand at once and completed as soon as possible; also the construction of a mole 3,800 ft. long on eastern side of the harbor entrance, at an estimated cost of $750,000; also enlargement and strengthening of Government customs wharf, at a cost of $250,000, so that ocean steamers can be berthed there; also the purchase of a small pontoon dredger for $15,000, for use in reclamation work, in addition to the bar dredger already ordered, at an estimated cost of $250,000. I am sure this news will be received with great pleasure by all residents in Lagos Colony."

RAILWAY.—Siberia-Alaska.—The Trans-Alaska-Siberian Railway Co. has been incorporated under the laws of New Jersey, with an authorized capital stock of $6,000,000 to build a railway across Siberia and Alaska, with a tunnel under Behring Strait. Incorporators: Loicq de Lobel, No. 11-bis Rue d'Edinbourg, Paris, France; J. A. L. Waddell, New Nelson Bldg., Kansas City, Mo.; John J. Healey, Pioneer Bldg., Seattle, Wash.; John R. Turner, 15 Exchange Place, Jersey City, N. J.; William Harmon Black, 11 Wall St., New York. According to a press dispatch the main line is to start from Konsk station, on the Trans-Siberian Railway, and run eastwardly to the boundary of the Province of Armour, and thence to a point between Yakoutsk and Okotsk, thence to the Behring Strait, with various branches. The tunnel under Behring Strait will be in the boundaries of the Russian territorial waters, with the junction with a smaller tunnel under American waters. The length of the principal lines will be about 3,750 miles, and 2,250 for the branch lines. The Alaska Railway will start from Cape Prince of Wales, Seward Peninsula, Alaska, at a point known as Kinnegan, and run toward Cape York and to Port Clarence, and from there to Grently harbor, crossing California and Kangarock Rivers toward Council City. From here the railroad will proceed easterly to North Bay, and from this point to near Nulato, thence along the Coutewell River, crossing the Tona River and to the boundary line between Alaska and the British Northwest Territory.

RAILWAY SYSTEM. — Colombia. — John Barrett, Minister at Bogota, reports that Colombia is planning a system of railways which, if carried to completion, will have a great influence on its future prosperity. He gives the details of a railroad extension program announced by President Reyes, as follows: First. The line from Buenaventura, on the Pacific Coast, and which was originally intended to cross the central range of the Andes at an enormous cost and requiring many years to construct, is to be diverted at Cali, in the rich Cauca Valley, and follow down the course of the Cauca River via Cartago and Caramanta to a convenient point, and then proceed from there to Medellin, the prosperous capital of the rich province of Antioquia. Second. The railroad of Antioquia, joining with the Cauca Railroad at Medellin, will be built to Puerto Berrio, on the Magdalena River, and from there down the banks of the Magdalena to Barranca Bermeja, the highest point on the Magdalena River to which navigation is safe and good the year round. Third. From Barranca Bermeja, on the Magdalena, will start an important railway to Bucaramanga, the growing capital of the Department of Santander, and from there it will be later continued to Cucuta, the principal Colombian city on the borders of Venezuela. Through Cucuta goes most of the Colombian trade to Maracaibo Lake. Fourth. The La Dorada Railroad, which is expected to reach Ambalema, on the Magdalena River, at the end of the following year, will proceed to Beltran, on the banks of the Magdalena, along those of the River Seco, and, passing by the summit of Limbo, will be connected at Tocaima with the railroad of Giradot, which, in the near future, will reach the savannah on which Bogota is located, and provide direct communication with the capital.

HARBOR PROJECTS, RAILWAYS, ETC.—Japan.—The "Japan Mail" announces, in connection with proposed harbor works at Kobe, that the Government has decided to construct at Onohama a large embankment, work on which will be commenced in May or June, 1907. On the Hyogo side large provision of harbor facilities will also be made, chiefly for the purposes of the trade between Japan, China and Korea. The details for Kobe include the following: A breakwater 1,088 yds. in length, a pier 4,890 yds. long, at which vessels can be moored, a landing place 230 yds. long, iron warehouse (open), 28,456 tsubo (approximately 102,400 sq. yds.) in area, wooden warehouses 1,030 tsubo (approximately 4,000 sq. yds.) in area, railways 22 miles, and 130 lifting cranes. As regards Hyogo, the details are: Two wharves, each 140 yds. long; a landing place 20 yds. long; an iron warehouse (open) 3,000 tsubo (about 11,850 sq. yds.) in area; railways three miles; eight lifting cranes, and roads, drains, electric lighting, etc. The total cost of these works is estimated at 32,490,000 yen (about $16,200,000), and the period of construction will be eight years.

The "Japan Herald" announces, with reference to a proposed scheme for the development of the Hokkaido at a cost of 20,400,000 yen (about $10,200,000), that the Director of the Local Bureau of the Home Office, who was sent to the Hokkaido to make investigations, has now made a report to the Minister for Home Affairs, his conclusions being mainly in favor of the scheme. The original scheme was to float a loan for the purpose of raising the sum required. Of the proceeds, 15,000,000 yen (about $7,500,000) is to be devoted to the improvement of six harbors, and 2,800,000 yen (about $1,400,000) to the improvement of land. The Home Office is not, however, disposed to sanction the scheme in toto. The portion of the scheme which will probably be sanctioned is said to be limited to the improvement of the land and the construction of three harbors, one of which will be at Otaru.

According to the "Japan Herald" two important electric railway proposals for Kobe are now under consideration by the Government, whose official sanction thereto is expected shortly. The first is that of the Kobe City Electric Railway for permission to connect the Hanjin and the Kobe electric line near the present terminus of the former line. The second is an application of the Hanjin Electric Railway Co. for permission to extend its line to the American Hatoba. An agreement has already been arrived at between the Osaka Municipality and the Hanjin Electric Co. concerning the connection of the latter line with the Osaka Harbor electric line.

CONTRACT PRICES.

CANAL.—Portland, Ore.—Only one bid was received by D. C. Henry, Supervis. Engr., U. S. Reclamation Service, Portland, on Nov. 19, for Divisions 5 A, 6 A and 7 A, Alternate Design A, for the Tieton Main Canal, Tieton Project, Wash. The bid, submitted by Theodore Welsberger, of North Yakima, Wash., was as follows, in detail:

Schedule 5 A—Alternate Design A.

Excavation for open canal:			
Class 1	9,000	cu. yds.	$0.24
Class 2	100	" "	.44
Class 3	100	" "	.65
Class 4	6,000	" "	.85
Excavation for tunnel:			
Class A	400	" "	3.80
Class B	100	" "	7.80
Class C	9,600	" "	8.50
Riprap	50	" "	.60
Rockfill	50	" "	.50
Tile drain	900	lin. ft.	.30
Dry filling in tunnel	600	" "	.30
Total			$91,774

Schedule 6 A—Alternate Design A.

Concrete shapes for canal and tunnel lining and for flumes	15,000	cu. yds.	$9.00
Concrete shapes for flume supports	200	" "	9.00
Total			$136,800

Schedule 7 A—Alternate Design A.

Laying concrete shapes in open canal	45,450	lin. ft.	$1.49
Laying concrete shapes on flume supports	1,155	" "	1.25
Erecting flume supports single story	960	" "	2.37
Erecting flume supports double story	150	" "	3.07
Erecting flume supports triple story	45	" "	4.21
Laying concrete shapes in tunnel	12,695	" "	1.44
Dry stone filling in tunnel, Type A	10,790	" "	.20
Dry stone filling in tunnel, Type B	725	" "	.54
Dry stone filling in tunnel, Type C	1,000	" "	.61
Dry stone filling in tunnel, Type D	180	" "	.23
Total			$93,571

TUNNEL.—Boston, Mass.—Bids were received on Nov. 8 for constructing part of Section 11 of the Washington St. tunnel under the wing of the City Hospital Relief Station and in Haymarket Sq. B. Leighton Beal, Secy. Boston Transit Comn. The bidders and bids in detail were as follows: (a) Falvey & Kelly, 15 Intervale Park, Dorchester; (b) Jas. J. Coughlan Cons. Co., 104 Hanover St., Boston; (c) Hugh Nawn Cont. Co., 82 Savin St., Roxbury; (d) Patrick McGovern, 6 Beacon St., Boston; (e) COLEMAN BROS., 15 Court Sq., Boston, (awarded contract.)

300 cu. yds. earth excavation.—(a) $6; (b) $7; (c) $7; (d) $5; (e) $4.

Removing and disposing of 270 cu. yds. of concrete masonry from existing subway.—(a) $25. (b) $30; (c) $20; (d) $24; (e) $30.

Furnishing, hauling and putting in place, for all purposes except that included in Item (cc) 100 cu. yds. concrete made with Portland cement mortar.—(a) $15; (b) $13; (c) $12.50; (d) $12; (e) $11.

Item (cc): Furnishing, hauling and putting in place around steel beams, &c., 150 cu. yds. concrete made with Portland cement mortar.—(a) $20; (b) $17; (c) $16; (d) 18; (e) $15.

Furnishing and laying 2 cu. yds. of brick masonry made with Portland cement mortar.—(a) $25; (b) $20; (c) $30; (d) $20; (e) $20.

Setting in place and securing 5 tons of steel and iron weighing less than 6 lbs. per lin. ft.—(a) $20; (b) $20; (c) $20; (d) $15; (e) $15.

Setting in place and securing 120 tons of steel and iron including needle beams and posts weighing 6 lbs. or more per lin ft.—(a) $25; (b) $30; (c) $50; (d) $25; (e) $25.

Furnishing, preparing and applying to joints or other parts of structure 400 sq. yds. of coating or skin of Portland cement mortar.—(a) $1; (b) 75 cts.; (c) 60 cts.; (d) 50 cts.; (e) 50 cts.

Furnishing, preparing and applying to structures 100 sq. yds. of waterproof coating of pitch or asphalt.—(a) $1; (b) 60 cts.; (c) 30 cts.; (d) 60 cts.; (e) $1.

Preparing and applying to structures 1,500 sq. yds. of tarred felt, pitch, etc.—(a) 25 cts.; (b) 60 cts.; (c) 30 cts.; (d) 35 cts.; (e) 25 cts.

Protecting the Relief Station and other structures near the work, for repairing or rebuilding injured portions of structures, &c., gross sum of—(a) $5,000; (b) $3,000; (c) $4,000; (d) $2,000; (e) $1,000.

Totals.—(a) $22,075; (b) $22,050; (c) $22,030; (d) $17,780; (e) $14,740.

Time of completion: (a) Mar. 1, 1907; (b) Jan. 10, 1907; (c) Mar. 1, 1907; (d) Apr. 1, 1907; (e) Jan. 15, 1907.

ENGINEERING MATERIAL PRICES.

TRACK FASTENINGS—
Pittsburg, f. o. b. cars—Angle bars, 1.50 to 1.75 cts.; spikes, 2.40 to 2.50 cts.; bolts, square nuts, 2.65 to 2.75 cts.; bolts, hexagonal nuts, 2.80 to 2.90 cts.

RAILS, STEEL—
New York—at mill—New standard sections, $28; standard, second quality, $27; light sections 12 to 25 lbs., $31 to $33; old iron f. o. b. New York, $24.50 to $25; old steel, long lengths, $18.50 to $19; old steel, short pieces, $16 to $16.75.
Pittsburg—Standard sections, at mill, $28; standard, second quality, $27.50 to $28; light rails, 20 to 45 lbs., $32; 16-lb., $33; and 12-lb., $34, at mill.

STRUCTURAL MATERIALS—
New York—at tidewater—Beams and channels, up to 15-in., 1.84½ cts.; over 15-in., 1.84½ cts.; angles 3 × 2 and up to 6 × 6, 1.84½ cts.; zees, 3-in. and larger, 1.80½ cts.; tees, 3-in. and larger, 1.80½ cts.; steel bars, half extras, 1.74½ cts.

PLATES AND SHEETS—
New York—at tidewater—Sheared plates tank, 1.84½ to 1.94½ cts.; flange, 1.94½ to 2.04½ cts.; marine, 2.24½ to 2.34½ cts.; still bottoms, 2.14½ cts.; fire-box, 2.34½ to 2.70 cts.
Pittsburg—Tank, ¼-in. thick and heavier, 1.70 cts.; black sheets, 27-gage, 2.50 cts.; black sheets, 28-gage, 2.60 to 2.65 cts.

IRON—
Pig Iron:
At New York—tidewater—
Northern—

No. 1 X foundry	$24.50 to $27.50
No. 2 X foundry	23.50 to 27.00
No. 2 plain	23.00 to 26.00
Gray forge	22.50 to 25.00
Basic	22.50 to 23.00

Virginia—

No. 1 foundry	24.15 to 27.15
No. 2 foundry	23.65 to 26.65
Basic	22.15 to 23.20

Southern—

No. 1 foundry	23.50 to 27.50
No. 2 foundry	22.50 to 26.50
No. 3 foundry	22.00 to 27.00
No. 4 foundry	21.00 to 25.00
No. 1 soft	23.50 to 27.50
No. 2 soft	22.50 to 27.00
Gray forge	21.00 to 22.00
Mottled	20.00 to 21.50
Basic	22.50 to 22.75

At Chicago—

Lake Superior charcoal	26.00 to 26.50
Northern coke foundry, No. 1	26.00 to 26.50
Northern coke foundry, No. 2	25.50 to 26.00
Northern coke foundry, No. 3	25.50 to 26.00
Northern Scotch No. 1	26.00 to 27.00
Ohio strong softeners, No. 1	26.00 to 26.50
Ohio strong softeners, No. 2	25.50 to 26.00
Southern coke, No. 1	25.40 to 25.90
Southern coke, No. 2	24.90 to 25.40
Southern coke, No. 3	24.40 to 24.90
Southern coke, No. 4	23.90 to 24.40
Southern coke, No. 1 soft	25.40 to 25.90
Southern coke, No. 2 soft	24.90 to 25.40
Southern gray forge	22.40 to 22.90
Southern mottled	21.90 to 22.40
Malleable Bessemer	26.00 to 26.50
Standard Bessemer	25.30 to 25.80
Jackson Co. and Kentucky Silvery, 6%	27.30 to 27.80
Jackson Co. and Kentucky Silvery, 8%	29.30 to 29.80
Jackson Co. and Kentucky Silvery, 10%	31.30 to 31.80

At Pittsburg, f. o. b. cars—

No. 2 foundry	23.00
Gray forge	22.35 to 22.85
Bessemer iron	24.35 to 24.85
Ferro-manganese	80.00 to 87.50
Muck bars	34.00 to 37.00
Iron bars	1.75 to 1.80

Cast-iron Pipe—
New York—Carload lots, net tons, 6-in., at tidewater, $34.50 to $36.
Chicago—4-in. water pipe, $36; 6-in. to 12-in., $34.50; over 12-in., $34, with $1 extra for gas pipe.

MISCELLANEOUS MATERIALS—
Asphaltum:
Ventura and other California asphalts, $20 to $23 per ton at New York; Trinidad refined, $22 to $25 per ton; Venezuela asphalt, $25 to $30 per ton; Bermuda asphalt, $25 to $35.
Cement:
Rosendale or Natural, in wood, 95 cts. per bbl.; Portland domestic, in sacks, $1.20 to $1.30; in wood, $1.50 to $1.60; German Portland, $1.90 to $2.10.
Copper:
Lake, 22.37½ to 22.75 cts.; electrolytic, 22 to 22.37½ cts; casting, 22 to 22.25 cts.
Lead:
New York, spot, 5.95 to 6 cts.
Spelter:
New York, spot, 6.40 to 6.45 cts.
Tin:
New York, spot, 43 to 43.10 cts.
Tar:
New York, $5.85 to $6 per bbl.
Pitch:
New York, $3.20 per bbl.

LUMBER—
New York, wholesale prices:
Piling—Spruce, ordinary cargoes, 6 to 7 cts.; oak, 14-in. butt, 40 to 50 ft., 19 cts.; 50 to 55 ft., 22 cts.; 55 to 60 ft., 23 cts.; 60 ft. and up, 25 cts.; pine, 60 to 65 ft., $8.50; 65 to 70 ft., $9.50; 70 to 75 ft., $10.50; 80 ft. and up, $16.
Railroad ties—Yellow pine, 6 × 9 ins. × 8 ft., 67 to 69 cts.; 6 × 8 ins. × 8 ft., 62 to 64 cts.; 7 × 9 ins. × 8 ft., 75 to 77 cts.; 7 × 8 ins. × 8½ ft., 74 to 75 cts.; 7 × 9 ins. × 8½ ft., 79 to 80 cts.

MEXICO.

NEW BUILDING.—Monterey.—The Sonora News Co. is having plans prepared for an office building which it will erect here. N. F. Layer is Mgr.

MINING MACHINERY.—Zacualpan.—New machinery is being installed in the mines of the Columna y Anexas Mining Co. at this place. Carlos Huber is Mgr.

RAILROAD.—Mexico City.—It is announced that the National Railroad Co. of Mexico will soon begin the work of laying a new track on its main line between Monterey and Venegas. 85-lb. rails will be used. The 72-lb. rails which are to be taken up will be used to widen the gage of some of the branch lines of the company.

GAS PLANT. — Parral, Chihuahua. — The State Government of Chihuahua has given a concession for a gas plant in Parral for the manufacture of gas for heating, lighting and power purposes, to A. N. Degerra and Jas. M. Hardy. The concession is for ten years. Victor Esperon, of Parral; R. Keays, of El Paso, Tex., and Dr. H. E. Thompson, of St. Louis, Mo., are interested.

MINING MACHINERY.—Guanajuato, Gto.—The Republic Mines Co., Ltd., of New York, which was lately organized for the purpose of taking over and operating the Cardones and Barragana mines, in the Guanajuato district, is preparing to offer its bonds for sale. The company is capitalized at $2,000,000, with $300,000 in 7% 20-year debenture bonds. It is reported that the company will erect a stamp mill, with an initial capacity of 100 tons daily.

SUGAR PLANTS.—Fuerta, Sinaloa.—The Aguila Sugar Refining Co. of this town has issued $1,200,000 of bonds, the proceeds of which will be used to increase its sugar industry business. The present plants of the company will be enlarged and new ones established. The Sinaloa Sugar Co., which also operates a large sugar refinery in this district, is owned by the same interests as the Aguila Sugar Refining Co., and is a party to the new bond issue.

TIN SMELTER.—Paso de Soto, Jalisco.—Extensive discoveries of tin ore near Paso de Soto, Jal., have been made. Reports state that a tin smelter will be erected, backed by interests of the Mitchell Mining Co. Charles Rettich, who made the original discovery of tin ore in Mexico, has denounced over 1,200 acres for the Mitchell interests. This denouncement is in the same district in which W. E. Lloyd, acting for the A. B. Adams Co., has recently secured exploration rights over 40,000 acres.

CIVIL SERVICE EXAMINATIONS

CIVIL ENGINEER.—Philippines.—An examination will be held on Jan. 3-4 by the U. S. Civil Service Commission to secure eligibles to fill vacancies in the position of Civil Engineer in the Philippine Service at $1,400 a year. There are, however, similar positions in that service paying higher salaries, and it is desired to secure from this examination eligibles who are qualified to fill the higher salaried positions in the event that vacancies therein occur. Appointees are allowed field expenses when absent on duty from their permanent station. Age limit, 18 to 40 years. Application Forms 2 and 375.

TOPOGRAPHIC AND CARTOGRAPHIC DRAFTSMEN.—Washington, D. C.—An examination will be held on Jan. 9-10 by the U. S. Civil Service Commission to secure eligibles to fill at least three vacancies in the position of Topographic and Cartographic Draftsman, at $1,000 a year each, in the office of the Chief of Staff, War Department, and vacancies as they may occur in any branch of the service requiring similar qualifications. As no eligibles were secured as the result of the examination announced for Oct. 30-31, qualified persons are urged to enter this examination. Age limit, 20 years or over. Application Form 1312.

CHIEF STEAM ENGINEER.—Louisville, Ky.—An examination is to be held on Dec. 12 by the U. S. Civil Service Commission to secure eligibles to fill a vacancy in the position of Chief Engineer in the United States Court-House and Post-Office building at Louisville, Ky., at $1,400 a year, and vacancies requiring similar qualifications as they may occur in the Custodian Service in that city or elsewhere. Age limit, 18 to 55 years on the date of the examination. All honorably discharged United States soldiers and sailors of the war of the rebellion will be admitted to this examination without regard to the maximum age limit. Persons who have suffered the loss of an arm or a leg, who are ruptured, or who have other serious disability are considered physically disqualified for this position. Application Form 1052.

For other Proposal Advertisements see pages 51, 52, 53, 54, of Advertisements and Construction News page 192.

OFFICE OF THE CONSTRUCTING QUARTERMASTER, Fort Assinniboine, Montana, November 26, 1906.—Sealed proposals, in triplicate, will be received at this office until 11 o'clock a. m., December 29, 1906, and then opened in the presence of bidders, for the construction of building for shelter of wells at Fort Assinniboine, Montana, according to plans and specifications, which can be seen at this office. The United States reserves the right to reject any or all bids or any part thereof. Instructions to bidders and blank form of proposals may be obtained upon application to this office. Envelopes containing bids to be indorsed "Proposals for Providing Shelter for Wells" at Fort Assinniboine, Mont., and addressed to the undersigned. J. J. BONIFACE, Captain and Quartermaster 2d Cavalry, Constructing Quartermaster. 23-4t

U. S. ENGINEER OFFICE, Army Bldg, New York, Dec. 6, 1906.—Sealed proposals for Dredging in Ambrose Channel, N. Y. Harbor, will be received at this office until 12 m., Jan. 8, 1907, and then publicly opened. Information furnished on application. W. L. MARSHALL, Lt.-Col., Engrs. 23-4t

TREASURY DEPARTMENT, Office of the Supervising Architect, Washington, D. C., December 3, 1906.—Sealed proposals will be received at this office until 3 o'clock p. m. on the 7th day of January, 1907, and then opened, for the construction (complete) of the extension to the U. S. Post Office and Custom House at Newport, Rhode Island, in accordance with the drawings and specification, copies of which may be had at this office or at the office of the Custodian of the Building at Newport, Rhode Island, at the discretion of the Supervising Architect. JAMES KNOX TAYLOR, Supervising Architect. 23-2t

WHARF.

Key West, Fla.

Sealed proposals will be received until 3 o'clock p. m., January 17, 1907, at the office of J. C. Meredith, Constructing Engineer, F. E. C. Ry., Miami, Fla., for the construction and completion of a concrete quay wall and filling involving quantities approximately as follows:

Rock excavation in slip and wall footing	76,110 c. y.
Concrete quay wall in massive blocks	26,120 c. y.
Concrete coping wall above water	1,600 c. y.
Concrete floor of wharf	2,400 c. y.
Structural steel	37,750 lbs.
Fender piles	8,200 lin. f.
Cast-iron mooring posts	31,350 lbs.
Rock filling from excavated material	102,000 c. y.

Specifications, forms of proposal and particulars may be obtained on application at the office of the Constructing Engineer, where plans may be inspected.

Each bid must be accompanied by a certified check, payable to the Florida East Coast Railway Co., for 2 per cent. of the contract price, as a guarantee that the bidder will, if successful, promptly execute satisfactory contract and furnish bond in the sum of 20 per cent. of the contract price for the faithful performance of the work. The right is reserved to reject any and all bids and waive technical defects if the interests of the Railway Company require it.

Bidders are invited to be present. 23-5t

Department of Public Works,
Bureau of Filtration,
Office 710 City Hall,
Philadelphia, Nov. 28, 1906.

Sealed proposals, endorsed "Bids for Pumping Engines and Coal Handling Machinery (name work bid upon)," and addressed to the undersigned, at the office above mentioned, will be received until 12 o'clock, noon, on January 4, 1907, for

Contract No. 93, Pumping Engines for Lardner's Point Pumping Station No. 3;

Contract No. 88, Coal Handling Machinery and Pockets for Torresdale Pumping Station.

Specifications, drawings and blank forms upon which bids must be made can be obtained at Room 712 City Hall, Philadelphia.

No bid will be considered unless accompanied by a certificate from the City Solicitor that the provisions of an ordinance requiring proposal bonds when the bids exceed in amount five hundred dollars, approved May 25, 1860 (p. 81, West), have been complied with.

The Director reserves to himself the right to reject any or all bids, as he may deem best for the interests of the city.

JOHN R. HATHAWAY,
23-2t–26-1t Director.

REPAIR AND RE-ENFORCEMENT OF IRON BRIDGE.

Bridgeport, Conn.

Proposals will be received by the Director of Public Works until Thursday, December 20, 1906, at 12 o'clock noon, for furnishing and putting in place, iron girders and beams under the Yellow Mill Bridge, in accordance with the plans and specifications to be seen at the office of the City Engineer, Bridgeport, Conn.

The right is reserved to reject any or all bids.

PATRICK KENNELLY,
Director of Public Works.
Bridgeport, Conn., Nov. 28, 1906. 23-1t

STREET PAVING.

Newburgh, N, Y.

Sealed proposals will be received at office of City Clerk in City Hall, Newburgh, New York, until twelve o'clock noon of Monday, January 7, 1907, for furnishing all materials, paving and permanently improving that portion of Lander Street lying between Broadway and South Street in said city with vitrified block, asphalt block, or Warren's bitulithic pavement.

There is about 8,200 sq. yds. to be paved, curbstones to be set, catch basins, sewer manholes, etc., to be built.

Cash or a certified check for five hundred dollars must accompany each bid. Bidding sheets may be obtained and plans and specifications can be seen at the office of City Engineer, City Hall, Newburgh, N. Y., on and after December 3, 1906.

The Board of Public Works hereby reserves the right to reject any or all proposals and to accept any considered favorable to the city.

D. J. COUTANT,
City Clerk.

EVERETT GARRISON,
City Engineer.
Dated Newburgh, N. Y., Nov. 24, 1906.
23-2t

PAVING

Sealed proposals on blan[illegible]le, Ga. by the City and addressed [illegible]rnished and Board of Aldermen, [illegible]Mayor" will be received until six [illegible]le, Ga., cember 19, 1906, for furnish[illegible]M., De- and labor for the following [illegible]material

Approximately 19,300 sq. [illegible] street Paving. Both Vitrified Brick [illegible]minous Macadam Paving will be com[illegible]

6,000 lin. ft of Granite Curb[illegible]

9,300 sq. yds. of Cement Sid[illegible]

Each bid must be accompa[illegible] a cer- tified check, made payable to [illegible]or for an amount not less than thre[illegible]nt. of the amount of the bid.

The right is reserved to reje[illegible] and all bids.

Plans and specifications can be [illegible] at the office of the City Clerk or of [illegible]gineer at Thomasville, Ga., and specifi[illegible]s will be mailed upon application to th[illegible]gineer.

J. F. PITTMA[illegible]ayor.
K. T. MACLEA[illegible]lerk.
H. S. JAUDON, Engineer. 23-2t

SEALED PROPOSALS will be [illegible]ved at the office of the Light-House En[illegible], Bal- timore, Md., until 12 o'clock M., [illegible]ary 4, 1907, and then opened, for furn[illegible]g ma- terials and labor of all kinds ne[illegible]ary for the completion and delivery of [illegible] metal work for the Ragged Point [illegible]t-house, Potomac River, Va., in accord[illegible]e with specifications, copies of which, [illegible] blank proposals and other information may be had upon application to Lieut. [illegible] R. L. HOXIE, Corps of Engineers, U. S. A., Engineer. 23-1t

SITUATIONS OPEN

WANTED—Transitman on railway construction; state age, salary, experience. Address "S. A. 23," Engineering News, New York. 23-1t

WANTED—Superintendent of reinforced concrete structures; must be competent to handle all business of contracting company in a city distant from general office; salary $2,100; percentage of profits to right man. Address "W. A. 23," Engineering News, New York. 23-2t

WANTED—Draftsmen and checkers for bridge and building work. State technical training, experience, salary expected, and when able to report. RIVERSIDE BRIDGE CO., Wheeling, W. Va. 23-2t

WANTED—Engineer with experience in surveying narrow gage railroads. One who can speak Spanish preferred. Give full particulars as to past experience, references and salary wanted. Address "O. 23," Engineering News, New York. 23-1t

WANTED.—Several young structural draftsmen at $80 to $100 per month in Railroad Structural Department. Must be graduate engineers and good draftsmen. In applying give full account of education and experience, send sample of drafting and lettering and furnish references. Address "A. A. 23," Engineering News, New York. 23-1t

WANTED.—At once, three or four experienced draftsmen on designing and detailing of wooden and steel headframes, trestles, mine buildings, etc., by a large bituminous Mining Company of Western Pennsylvania. State age, salary expected, experience, date when can report for work, and references. Address "D. A. 23," Engineering News, New York. 23-3t

WANTED.—A young man as assistant in engineering department by company in New York City dealing in generators and motors and their application and installation. State fully experience, age, salary expected, and give references. Address "C. A. 23," Engineering News, New York. 23-1t

WANTED.—Map draftsman. Send sample of work, state age, experience and least salary considered. Chief Engineer, THE CONSOLIDATION COAL CO., Frostburg, Md. 23-4t

WANTED.—Assistant Superintendent of Construction, one familiar with coal handling machinery, structural iron and wood work. State experience, reference and salary expected. Address "B. A. 23," Engineering News, New York. 23-1t

Situations Wanted

COOPER UNION STUDENT, 19, experienced rodman, wishes position in New York City or vicinity. References. H. C. LUNDBERG, 2074 8th Av., New York. 23-1t

FOR SALE

FOR SALE.

A Hydraulic Dredge

latest improvements; capacity 2,000 yards per day; first-class condition; contract just finished and we have no further use. Can be seen by applying to VARE BROTHERS, 710 Bets Building, Phila. 23-1t

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